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DATE: Tuesday, September 14, 2004

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14	OPG binding protein	5
<input type="checkbox"/>	L13	L12 AND binding protein	519
<input type="checkbox"/>	L12	osteoprotegerin	688
<input type="checkbox"/>	L11	L8 AND osteoprotegerin binding protein	0
<input type="checkbox"/>	L10	L8 AND OPG binding protein	0
<input type="checkbox"/>	L9	L8 AND osteoprotegerin	16
<input type="checkbox"/>	L8	424/130.1,133.1,134.1,136.1,139.1,141.1,142.1.CCLS.	2658
<input type="checkbox"/>	L7	Boyle.IN.	3277
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<input type="checkbox"/>	L3	Boyle-Will-J.IN.	0
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Search Results - Record(s) 1 through 16 of 16 returned.

☐ 1. Document ID: US 20040053864 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 16

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040053864

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040053864 A1

TITLE: Methods and compositions for control of bone formation via modulation of neuropeptide y activity

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karsenty, Gerard	Houston	TX	US	
Ducy, Patricia	Houston	TX	US	
Amling, Michael	Hamburg		DE	

US-CL-CURRENT: [514/44](#); [424/130.1](#), [514/12](#), [514/418](#), [514/443](#), [514/469](#)

Full	Title	Citation	Front	Renew	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Desc
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☐ 2. Document ID: US 20040013664 A1

L9: Entry 2 of 16

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040013664

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040013664 A1

TITLE: Tumor necrosis factor receptors 6 alpha & 6 beta

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gentz, Reiner L.	Belo Horizonte-Mg	CA	BR	
Yu, Guo-Liang	Berkeley	MD	US	
Ni, Jian	Germantown	MD	US	
Ebner, Reinhard	Gaithersburg	MD	US	
Feng, Ping	Germantown	MD	US	
Ruben, Steven M.	Brookeville		US	

US-CL-CURRENT: [424/130.1](#); [514/12](#)

h e b b g e e f e c ef b e

ABSTRACT:

The present invention relates to novel Tumor Necrosis Factor Receptor proteins. In particular, isolated nucleic acid molecules are provided encoding the human TNFR-6.alpha. & -6.beta. proteins. TNFR-6.alpha. & -6.beta. polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TNFR-6.alpha. & -6.beta. activity. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Publ	Draw Des
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☐ 3. Document ID: US 20040005314 A1

L9: Entry 3 of 16

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040005314

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040005314 A1

TITLE: Apo-2l receptor agonist and cpt-11 synergism

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Escandon, Enrique	Belmont	CA	US	
Kelley, Sean K	San Mateo	CA	US	
Xiang, Hong	Palo Alto	CA	US	
Fox, Judith A			US	

US-CL-CURRENT: 424/141.1; 424/144.1, 600/1

ABSTRACT:

Methods of using effective amounts of Apo-2L receptor agonists and CPT-11 to induce apoptosis and suppress growth of cancer cells are provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Publ	Draw Des
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☐ 4. Document ID: US 20040005312 A1

L9: Entry 4 of 16

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040005312

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040005312 A1

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ashkenazi, Avi J.	San Mateo	CA	US	
Baker, Kevin P.	Darnestown	MD	US	
Botstein, David	Belmont	CA	US	
Desnoyers, Luc	San Francisco	CA	US	
Eaton, Dan L.	San Rafael	CA	US	
Ferrara, Napoleone	San Francisco	CA	US	
Filvaroff, Ellen	San Francisco	CA	US	
Fong, Sherman	Alameda	CA	US	
Gao, Wei-Qiang	Palo Alto	CA	US	
Gerber, Hanspeter	San Francisco	CA	US	
Gerritsen, Mary E.	San Mateo	CA	US	
Goddard, Audrey	San Francisco	CA	US	
Godowski, Paul J.	Burlingame	CA	US	
Grimaldi, J. Christopher	San Francisco	CA	US	
Gurney, Austin L.	Belmont	CA	US	
Hillan, Kenneth J.	San Francisco	CA	US	
Kljavin, Ivar J.	Lafayette	CA	US	
Kuo, Sophia S.	San Francisco	CA	US	
Napier, Mary A.	Hillsborough	CA	US	
Pan, James	Belmont	CA	US	
Paoni, Nicholas F.	Belmont	CA	US	
Roy, Margaret Ann	San Francisco	CA	US	
Shelton, David L.	Oakland	CA	US	
Stewart, Timothy A.	San Francisco	CA	US	
Tumas, Daniel	Orinda	CA	US	
Williams, P. Mickey	Half Moon Bay	CA	US	
Wood, William I.	Hillsborough	CA	US	

US-CL-CURRENT: 424/130.1; 435/183, 435/320.1, 435/325, 435/69.1, 530/350, 530/388.1, 536/23.2

ABSTRACT:

The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	ROC	Draw Des
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☐ 5. Document ID: US 20030198637 A1

L9: Entry 5 of 16

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030198637

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030198637 A1

TITLE: Antibody selective for a tumor necrosis factor-related apoptosis-inducing ligand receptor and uses thereof

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhou, Tong	Birmingham	AL	US	
Kimberly, Robert P.	Birmingham	AL	US	
Koopman, William J.	Indian Springs	AL	US	
LoBuglio, Albert F.	Birmingham	AL	US	
Buchsbaum, Donald J.	Montevallo	AL	US	

US-CL-CURRENT: 424/141.1; 424/145.1, 530/388.15, 530/388.24

ABSTRACT:

An antibody of the invention interacts with human DR5 or with human DR4 to produce agonistic or antagonistic effects downstream of the receptor including inhibition of cell proliferation and apoptosis. Nucleic acid sequences and amino acid sequences of DR5 and DR4 antibodies have been elucidated and vectors and cells containing and expressing these sequences have been generated. Methods and uses for the antibodies are detailed including treatment of apoptosis-related disease and treatment of dysregulated cell growth.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MOE	Draw Des.
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☐ 6. Document ID: US 20030157094 A1

L9: Entry 6 of 16

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030157094

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030157094 A1

TITLE: Use of il-18 inhibitors

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chvatchko, Yolande	Confignon	CO	CH	
Dinareello, Charles	Boulder	CO	US	
Plater-Zyberk, Christine	Geneva		CH	
Van Deventer, Santer	Haarlem		NL	
Rubinstein, Menachem	Givat Shmuel		IL	
Novick, Daniela	Rehovot		IL	
Kim, Soo-Hyun	Denver		US	

US-CL-CURRENT: 424/141.1; 424/145.1

ABSTRACT:

The invention relates to the use of inhibitors of IL-18 in the preparation of a

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medicament for treatment and/or prevention of liver injury. The invention further relates to the use of IL-18 inhibitors in the preparation of a medicament for treatment and/or prevention of arthritis, in particular rheumatoid arthritis. In addition to this, the invention relates to the use of inhibitors of IL-18 in the preparation of a medicament for treatment and/or prevention of inflammatory bowel diseases, in particular of Crohn's disease and ulcerative colitis.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw Des
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☐ 7. Document ID: US 20020168359 A1

L9: Entry 7 of 16

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168359

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020168359 A1

TITLE: Human tumor necrosis factor receptor TR9

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ni, Jian	Germantown	MD	US	
Yu, Guo-Liang	Berkeley	CA	US	
Fan, Ping	Potomac	MD	US	
Gentz, Reiner L.	Rockville	MD	US	

US-CL-CURRENT: 424/139.1; 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The present invention relates to a novel member of the tumor necrosis factor family of receptors. In particular, isolated nucleic acid molecules are provided encoding the human TR9 receptor. TR9 polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TR9 receptor activity.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw Des
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☐ 8. Document ID: US 20020159998 A1

L9: Entry 8 of 16

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020159998

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020159998 A1

TITLE: Methods of treating multiple myeloma and myeloma-induced bone resorption using integrin antagonists

PUBLICATION-DATE: October 31, 2002

INVENTOR-INFORMATION:

h e b b g e e e f e c e f b e

NAME	CITY	STATE	COUNTRY	RULE-47
Mundy, Gregory R.	San Antonio	TX	US	
Yoneda, Toshiyuki	San Antonio	TX	US	

US-CL-CURRENT: 424/143.1; 424/141.1

ABSTRACT:

Antagonists of .alpha.4 integrin/.alpha.4 integrin ligand adhesion, which inhibit the biological effects of such adhesion are described and methods for their use are detailed. Such antagonists are useful in suppressing bone destruction associated with multiple myeloma. The homing of multiple myeloma cells to bone marrow and their .alpha.4 integrin-dependent release of bone-resorbing factors, resulting in bone destruction in patients with multiple myeloma, is inhibited.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw. Desc.
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☐ 9. Document ID: US 20020041874 A1

L9: Entry 9 of 16

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020041874

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020041874 A1

TITLE: Methods of treating multiple myeloma and myeloma-induced bone resorption using integrin antagonists

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mundy, Gregory R.	San Antonio	TX	US	
Yoneda, Toshiyuki	San Antonio	TX	US	

US-CL-CURRENT: 424/131.1; 424/133.1, 424/141.1, 424/178.1

ABSTRACT:

Antagonists of .alpha.4 integrin/.alpha.4 integrin ligand adhesion, which inhibit the biological effects of such adhesion are described and methods for their use are detailed. Such antagonists are useful in suppressing bone destruction associated with multiple myeloma. The homing of multiple myeloma cells to bone marrow and their .alpha.4 integrin-dependent release of bone-resorbing factors, resulting in bone destruction in patients with multiple myeloma, is inhibited.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw. Desc.
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☐ 10. Document ID: US 20020022028 A1

L9: Entry 10 of 16

File: PGPB

Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020022028

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020022028 A1

TITLE: Methods of treating multiple myeloma and myeloma-induced bone resorption using integrin antagonists

PUBLICATION-DATE: February 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mundy, Gregory R.	San Antonio	TX	US	
Yoneda, Toshiyuki	San Antonio	TX	US	

US-CL-CURRENT: 424/142.1; 424/133.1

ABSTRACT:

Antagonists of alpha 4 integri/alpha 4 integrin ligand adhesion, which inhibit the biological effects of such adhesion are described and methods for their use are detailed. Such antagonists are eseful in supressing bone destruction associated with multiple myeloma. The homing of multiple myeloma cells to bone marrow and their alpha 4 integrin-dependent release of bone-resorbing factors, resulting in bone destruction in patients with multiple myeloma, is inhibited

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Drawn Desc
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☐ 11. Document ID: US 6764679 B2

L9: Entry 11 of 16

File: USPT

Jul 20, 2004

US-PAT-NO: 6764679

DOCUMENT-IDENTIFIER: US 6764679 B2

TITLE: Antibodies to Dcr3 Polypeptide, a TNFR Homolog

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ashkenazi; Avi J.	San Mateo	CA		
Botstein; David	Belmont	CA		
Dodge; Kelly H.	San Mateo	CA		
Goddard; Audrey	San Francisco	CA		
Gurney; Austin L.	Belmont	CA		
Kim; Kyung Jin	Los Altos	CA		
Lawrence; David A.	San Francisco	CA		
Pitti; Robert	El Cerrito	CA		
Roy; Margaret A.	San Francisco	CA		
Tumas; Daniel B.	Orinda	CA		
Wood; William I.	Hillsborough	CA		

US-CL-CURRENT: 424/130.1; 424/133.1, 424/138.1, 424/141.1, 424/143.1, 435/69.7,
530/350, 530/387.1, 530/387.3, 530/387.7 , 530/387.9, 530/388.15, 530/388.22,
530/389.1, 530/389.7

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ABSTRACT:

A TNFR homolog, identified as DcR3, is provided. Nucleic acid molecules encoding DcR3, chimeric molecules and antibodies to DcR3 are also provided.

33 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KLOC	Drawing Des.
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☐ 12. Document ID: US 6756480 B2

L9: Entry 12 of 16

File: USPT

Jun 29, 2004

US-PAT-NO: 6756480

DOCUMENT-IDENTIFIER: US 6756480 B2

TITLE: Modulators of receptors for parathyroid hormone and parathyroid hormone-related protein

DATE-ISSUED: June 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kostenuik; Paul	Newbury Park	CA		
Liu; Chuan-Fa	Longmont	CO		
Lacey; David Lee	Newbury Park	CA		

US-CL-CURRENT: 530/387.1; 424/130.1, 424/178.1

ABSTRACT:

The present invention concerns therapeutic agents that modulate the activity of PTH and PTHrP. In accordance with the present invention, modulators of PTH and PTHrP comprise: (a) a PTH/PTHrP modulating domain; and (b) a vehicle, such as a polymer (e.g., PEG or dextran) or an Fc domain, which is preferred;

wherein the vehicle is covalently attached to the C-terminus of the PTH/PTHrP modulating domain. The vehicle and the PTH/PTHrP modulating domain may be linked through the N- or C-terminus of the PTH/PTHrP modulating domain, as described further below. The preferred vehicle is an Fc domain, and the preferred Fc domain is an IgG Fc domain. Preferred PTH/PTHrP modulating domains comprise the PTH and PTHrP-derived amino acid sequences described hereinafter. Other PTH/PTHrP modulating domains can be generated by phage display, RNA-peptide screening and the other techniques mentioned herein. Such peptides typically will be modulators of both PTH activity and PTHrP activity, although such techniques can be used to generate peptide sequences that serve as selective modulators (e.g., agonists of PTH activity but not PTHrP activity).

24 Claims, 29 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KLOC	Drawing Des.
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☐ 13. Document ID: US 6693175 B2

L9: Entry 13 of 16

File: USPT

Feb 17, 2004

US-PAT-NO: 6693175

DOCUMENT-IDENTIFIER: US 6693175 B2

TITLE: Method for diagnosing bone dysbolism

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yano; Kazuki	Tochigi			JP
Kobayashi; Fumie	Tochigi			JP
Goto; Masaaki	Tochigi			JP
Washida; Naohiro	Tochigi			JP
Tsuda; Eisuke	Tochigi			JP
Higashio; Kanji	Saitama			JP
Yamada; Yoshiji	Aichi			JP

US-CL-CURRENT: 530/388.1, 424/133.1, 424/141.1, 424/172.1, 424/184.1, 435/181,
435/69.1, 435/69.7, 435/7.1, 435/7.2, 435/7.23, 435/7.71, 435/7.92, 435/7.94,
530/300, 530/350, 530/387.1, 530/387.3, 530/388.15, 530/388.2, 530/388.24,
530/388.26, 530/389.1, 530/809, 800/14

ABSTRACT:

A method of diagnosing metabolic bone diseases, especially osteoporosis and arthrosis characterized by determining the concentration of osteoclastogenesis inhibitory factor (OCIF) in humor.

Monoclonal antibodies recognizing equally both of monomer type and dimer type of OCIF. Monoclonal antibodies recognizing selectively dimer type of OCIF. And to provide an assay kit for determination of OCIF concentration comprising the aforementioned two antibodies recognizing different epitope of OCIF and having high affinity showing dissociation constant of less than 2×10^{-7} M with antigen. It is useful for a method of diagnosing metabolic bone diseases, especially osteoporosis and arthrosis or for an assay reagent for research thereof.

72 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw Det
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☐ 14. Document ID: US 6562948 B2

L9: Entry 14 of 16

File: USPT

May 13, 2003

US-PAT-NO: 6562948

DOCUMENT-IDENTIFIER: US 6562948 B2

TITLE: Receptor activator of NF-.kappa.B

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Dirk M.	Seattle	WA		

US-CL-CURRENT: 530/387.9; 424/130.1, 424/143.1, 435/320.1, 435/331, 435/334,
435/69.1, 435/7.1, 530/300, 530/350, 530/388.1, 536/23.5

ABSTRACT:

Provided herein are isolated antibodies that specifically bind a RANK polypeptide.

5 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Keywords	Drawing Descriptions
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☐ 15. Document ID: US 6528482 B1

L9: Entry 15 of 16

File: USPT

Mar 4, 2003

US-PAT-NO: 6528482

DOCUMENT-IDENTIFIER: US 6528482 B1

TITLE: Receptor activator of NF-.kappa.B

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Dirk M.	Seattle	WA		
Galibert; Laurent	Seattle	WA		
Maraskovsky; Eugene	Caulfield Nth			AU
Dougall; William C.	Seattle	WA		

US-CL-CURRENT: 514/2; 424/130.1, 435/320.1, 435/375, 435/69.1, 435/7.1, 530/300,
530/350, 530/386

ABSTRACT:

Isolated receptors, DNAs encoding such receptors, and pharmaceutical compositions made therefrom, are disclosed. The isolated receptors can be used to regulate an immune response. The receptors are also useful in screening for inhibitors thereof.

10 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Keywords	Drawing Descriptions
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☐ 16. Document ID: US 6358508 B1

L9: Entry 16 of 16

File: USPT

Mar 19, 2002

US-PAT-NO: 6358508

DOCUMENT-IDENTIFIER: US 6358508 B1

TITLE: Antibodies to human tumor necrosis factor receptor TR9

DATE-ISSUED: March 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ni; Jian	Rockville	MD		
Yu; Guo-Liang	Berkeley	CA		
Fan; Ping	Gaithersburg	MD		
Gentz; Reiner L.	Rockville	MD		

US-CL-CURRENT: 424/139.1; 424/178.1, 530/387.9, 530/388.22, 530/389.1, 530/391.3, 530/391.7

ABSTRACT:

The present invention relates to a novel member of the tumor necrosis factor family of receptors. In particular, isolated nucleic acid molecules are provided encoding the human TR9 receptor. TR9 polypeptides are also provided as are antibodies vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TR9 receptor activity.

10 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawing Desc
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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20030104485 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 5

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104485

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030104485 A1

TITLE: ANTIBODIES SPECIFIC FOR OSTEOPROTEGERIN BINDING PROTEINS AND METHOD OF USE

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BOYLE, WILLIAM J.	MOORPARK	CA	US	

US-CL-CURRENT: 435/7.2; 435/320.1, 435/325, 435/69.1, 530/350, 530/388.22, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
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☐ 2. Document ID: US 20030103978 A1

L14: Entry 2 of 5

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030103978

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030103978 A1

TITLE: Selective binding agents of osteoprotegerin binding protein

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deshpande, Rajendra V.	Thousand Oaks	CA	US	
Hitz, Anna	Newbury Park	CA	US	
Boyle, William James	Malibu	CA	US	
Sullivan, John K.	Newbury Park	CA	US	

US-CL-CURRENT: 424/152.1; 530/388.1

ABSTRACT:

Selective binding agents of osteoprotegerin binding protein (OPGbp) are provided by the invention. More particularly, the invention provides for antibodies and antigen

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binding domains which selectively bind to OPGbp and may be used to prevent or treat conditions relating to loss of bone mass. Nucleic acid molecules encoding said antibodies and antigen binding domains, and expression vectors and host cells for the production of same are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 3. Document ID: US 20030100488 A1

L14: Entry 3 of 5

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100488

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100488 A1

TITLE: OSTEOPROTEGERIN BINDING PROTEINS

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BOYLE, WILLIAM J.	MOORPARK	CA	US	

US-CL-CURRENT: 514/12; 435/252.33, 435/320.1, 435/6, 530/350, 536/23.5

ABSTRACT:

A novel polypeptide, osteoprotegerin binding protein, involved in osteoclast maturation has been identified based upon its affinity for osteoprotegerin. Nucleic acid sequences encoding the polypeptide, or a fragment, analog or derivative thereof, vectors and host cells for production, methods of preparing osteoprotegerin binding protein, and binding assays are also described. Compositions and methods for the treatment of bone diseases such as osteoporosis, bone loss due to arthritis or metastasis, hypercalcemia, and Paget's disease are also provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Des
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☐ 4. Document ID: US 6316408 B1

L14: Entry 4 of 5

File: USPT

Nov 13, 2001

US-PAT-NO: 6316408

DOCUMENT-IDENTIFIER: US 6316408 B1

**** See image for Certificate of Correction ****

TITLE: Methods of use for osetoprotegerin binding protein receptors

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyle; William J.	Moorpark	CA		

US-CL-CURRENT: 514/12; 530/350

h e b b g e e f e c ef b e

ABSTRACT:

A novel polypeptide, osteoprotegerin binding protein, involved in osteoclast maturation has been identified based upon its affinity for osteoprotegerin. Nucleic acid sequences encoding the polypeptide, or a fragment, analog or derivative thereof, vectors and host cells for production, methods of preparing osteoprotegerin binding protein, and binding assays are also described. Compositions and methods for the treatment of bone diseases such as osteoporosis, bone loss due to arthritis or metastasis, hypercalcemia, and Paget's disease are also provided.

Receptors for osteoprotegerin binding proteins are also described. The receptors, and agonists and antagonists thereof, may be used to treat bone diseases.

9 Claims, 45 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 30

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc
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☐ 5. Document ID: US 5843678 A

L14: Entry 5 of 5

File: USPT

Dec 1, 1998

US-PAT-NO: 5843678

DOCUMENT-IDENTIFIER: US 5843678 A

TITLE: Osteoprotegerin binding proteins

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyle; William J.	Moorpark	CA		

US-CL-CURRENT: 435/7.1; 514/2, 530/300, 530/350

ABSTRACT:

A novel polypeptide, osteoprotegerin binding protein, involved in osteoclast maturation has been identified based upon its affinity for osteoprotegerin. Nucleic acid sequences encoding the polypeptide, or a fragment, analog or derivative thereof, vectors and host cells for production, methods of preparing osteoprotegerin binding protein, and binding assays are also described. Compositions and methods for the treatment of bone diseases such as osteoporosis, bone loss due to arthritis or metastasis, hypercalcemia, and Paget's disease are also provided.

15 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc
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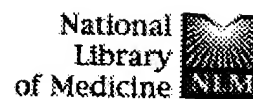
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





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














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


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













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















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






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
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















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
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


















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






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
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
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
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
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
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
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














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


















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
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
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








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



































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
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
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
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









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
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
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








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
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









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
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

















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


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
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
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









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























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
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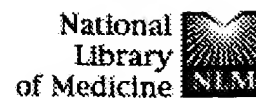
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
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
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















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














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





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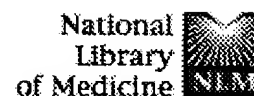
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













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














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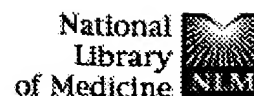
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Human chaperonin 60 (Hsp60) stimulates bone resorption: structure/function relationships.

Bone. 2003 Sep;33(3):419-25.

PMID: 13678784 [PubMed - indexed for MEDLINE]

☐ 7: [Khosla S, Atkinson EJ, Dunstan CR, O'Fallon WM.](#) Related Articles, Links

Effect of estrogen versus testosterone on circulating osteoprotegerin and other cytokine levels in normal elderly men.

J Clin Endocrinol Metab. 2002 Apr;87(4):1550-4.

PMID: 11932280 [PubMed - indexed for MEDLINE]

☐ 8: [Takeuchi T, Tsuboi T, Arai M, Togari A.](#) Related Articles, Links



Adrenergic stimulation of osteoclastogenesis mediated by expression of osteoclast differentiation factor in MC3T3-E1 osteoblast-like cells.

Biochem Pharmacol. 2001 Mar 1;61(5):579-86.

PMID: 11239501 [PubMed - indexed for MEDLINE]



9: [Mbalaviele G, Abu-Amer Y, Meng A, Jaiswal R, Beck S, Pittenger MF, Thiede MA, Marshak DR](#) [Related Articles, Links](#)



Activation of peroxisome proliferator-activated receptor-gamma pathway inhibits osteoclast differentiation.

J Biol Chem. 2000 May 12;275(19):14388-93.

PMID: 10799521 [PubMed - indexed for MEDLINE]

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=> s osteoprotegerin
52 FILES SEARCHED...
L1 9577 OSTEOPROTEGERIN

=> s osteoprotegerin binding protein
16 FILES SEARCHED...
25 FILES SEARCHED...
43 FILES SEARCHED...
63 FILES SEARCHED...
L2 143 OSTEOPROTEGERIN BINDING PROTEIN

=> DUP REM L2
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L3 126 DUP REM L2 (17 DUPLICATES REMOVED)

=> D L3 1-126

L3 ANSWER 1 OF 126 USPATFULL on STN
AN 2004:203879 USPATFULL
TI Rank-ligand-induced sodium/proton antiporter polypeptides
IN Bird, Timothy A., Bainbridge, WA, UNITED STATES
Tometsko, Mark E., Seattle, WA, UNITED STATES
Dougall, William C., Seattle, WA, UNITED STATES
Mosley, Bruce A., Seattle, WA, UNITED STATES
PI US 2004157771 A1 20040812
AI US 2003-372613 A1 20030221 (10)
PRAI US 2002-361891P 20020228 (60)
DT Utility
FS APPLICATION
LN.CNT 5274
INCL INCLM: 514/012.000
INCLS: 530/350.000; 435/069.100; 435/320.100; 435/325.000; 536/023.500
NCL NCLM: 514/012.000
NCLS: 530/350.000; 435/069.100; 435/320.100; 435/325.000; 536/023.500
IC [7]
ICM: A61K038-17
ICS: C07K014-705; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 126 CIN COPYRIGHT 2004 ACS on STN
AN 33(4):1819S CIN
TI Patent applications
SO Biotechnol. News, 8 Jan 2004 (20040108), 24(1), p. 11. ISSN: 0273-3226;
CODEN: BINWEY.
LA English

L3 ANSWER 3 OF 126 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2003:435069 CAPLUS
DN 139:35078
TI Selective binding agents of ***osteoprotegerin*** ***binding***
protein (OPGbp), such as antagonist antibodies, for use in the
treatment of bone disorders
IN Deshpande, Rajendra V.; Hitz, Anna; Boyle, William James; Sullivan, John
K.
PA Amgen Inc., USA
SO U.S. Pat. Appl. Publ., 123 pp., Cont.-in-part of U.S. Ser. No. 511,139,
abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003103978	A1	20030605	US 2001-791153	20010222
	WO 2001062932	A1	20010830	WO 2001-US5973	20010223
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,			

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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, EG, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1257648 A1 20021120 EP 2001-911158 20010223
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2003523772 T2 20030812 JP 2001-562706 20010223
 PRAI US 2000-511139 B2 20000223
 US 2001-791153 A 20010222
 WO 2001-US5973 W 20010223

L3 ANSWER 4 OF 126 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 2

AN 10360068 IFIPAT;IFIUDB;IFICDB

TI ANTIBODIES SPECIFIC FOR ***OSTEOPROTEGERIN*** ***BINDING***
 PROTEINS AND METHOD OF USE; NUCLEOTIDE SEQUENCES CODING
 POLYPEPTIDE FOR USE IN TREATMENT OF BONE DISORDERS

IN BOYLE WILLIAM J

PA Unassigned Or Assigned To Individual (68000)

PI US 2003104485 A1 20030605

AI US 1998-79569 19980514

RLI US 1997-842842 19970416 DIVISION

5843678

FI US 2003104485 20030605

US 5843678

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 33

GI 3 Figure(s).

FIG. 1. Structure and sequence of the 32D-F3 insert encoding OPG binding protein. Predicted transmembrane domain and sites for asparagine-linked carbohydrate chains are underlined.

FIG. 2. OPG binding protein expression in COS-7 cells transfected with pcDNA/32D-F3. Cells were lipofected with pcDNA/32D-F3 DNA, the assayed for binding to either goat antihuman IgG1 alkaline phosphatase conjugate (secondary alone), human OPG(22-201)-Fc plus secondary (OPG-Fc), or a chimeric ATAR extracellular domain-Fc fusion protein (sATAR-Fc). ATAR is a new member of the TNFR superfamily, and the sATAR-Fc fusion protein serves as a control for both human IgG1 Fc domain binding, and generic TNFR related protein, binding to 32D cell surface molecules.

FIG. 3. Expression of OPG binding protein in human tissues. Northern blot analysis of human tissue mRNA (Clontech) using a radiolabeled 32D-F3 derived hybridization probe. Relative molecular mass is indicated at the left in kilobase pairs (kb). Arrowhead on right side indicates the migration of an approximately 2.5 kb transcript detected in lymph node mRNA. A very faint band of the same mass is also detected in fetal liver.

L3 ANSWER 5 OF 126 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 3

AN 10356071 IFIPAT;IFIUDB;IFICDB

TI ***OSTEOPROTEGERIN*** ***BINDING*** ***PROTEINS*** ; FOR

THERAPY OF BONE DISEASES, SUCH AS OSTEOPOROSIS, BONE LOSS FROM ARTHRITIS, PAGET'S DISEASE, AND HYPERCALCEMIA

IN BOYLE WILLIAM J

PA Unassigned Or Assigned To Individual (68000)

PI US 2003100488 A1 20030529

AI US 1998-211297 19981214

RLI US 1997-880855 19970623 CONTINUATION

US 1997-842842 19970416 CONTINUATION-IN-PART 5843678

FI US 2003100488 20030529

US 5843678

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 36

GI 9 Figure(s).

FIG. 1. Structure and sequence of the 32D-F3 insert encoding OPG binding protein. Predicted transmembrane domain and sites for asparagine-linked carbohydrate chains are underlined.

FIG. 2. OPG binding protein expression in COS-7 cells transfected with pcDNA/32D-F3. Cells were lipofected with pcDNA/ 32D-F3 DNA, the assayed for binding to either goat anti-human IgG1 alkaline phosphatase conjugate (secondary alone), human OPG(22-201)-Fc plus secondary (OPG-Fc), or a chimeric ATAR extracellular domain-Fc fusion protein (sATAR-Fc). ATAR is a new member of the TNFR superfamily, and the sATAR-Fc fusion protein serves as a control for both human IgG1 Fc domain binding, and generic

FIG. 3. Expression of OPG binding protein in human tissues. Northern blot analysis of human tissue mRNA (Clontech) using a radiolabeled 32D-F3 derived hybridization probe. Relative molecular mass is indicated at the left in kilobase pairs (kb). Arrowhead on right side indicates the migration of an approximately 2.5 kb transcript detected in lymph node mRNA. A very faint band of the same mass is also detected in fetal liver.

FIG. 4. Structure and sequence of the pcDNA/hu OPGbp 1.1 insert encoding the human OPG binding protein. The predicted transmembrane domain and site for asparagine-linked carbohydrate chains are underlined.

FIG. 5. Stimulation of osteoclast development in vitro from bone marrow macrophage and ST2 cell cocultures treated with recombinant murine OPG binding protein (158-316). Cultures were treated with varying concentrations of murine OPG binding protein ranging from 1.6 to 500 ng/ml. After 8-10 days, cultures were lysed, and TRAP activity was measured by solution assay. In addition, some cultures were simultaneously treated with 1, 10, 100, 500, and 1000 ng/ml of recombinant murine OPG (22-401)-Fc protein. Murine OPG binding protein induces a dosedependent stimulation in osteoclast formation, whereas OPG (22401)-Fc inhibits osteoclast formation.

FIG. 6. Stimulation of osteoclast development from bone marrow precursors in vitro in the presence of M-CSF and murine OPG binding protein (158-316). Mouse bone marrow was harvested, and cultured in the presence 250, 500, 1000, and 2000 U/ml of M-CSF. Varying concentrations of OPG binding protein (158-316), ranging from 1.6 to 500 ng/ml, were added to these same cultures. Osteoclast development was measured by TRAP solution assay.

FIG. 7. Osteoclasts derived from bone marrow cells in the presence of both M-CSF and OPG binding protein (158-316) resorb bone in vitro. Bone marrow cells treated with either M-CSF, OPG binding protein, or with both factors combined, were plated onto bone slices in culture wells, and were allowed to develop into mature osteoclasts. The resulting cultures were then stained with Toluidine Blue (left column), or histochemically to detect TRAP enzyme activity (right column). In cultures receiving both factors, mature osteoclasts were formed that were capable of eroding bone as judged by the presence of blue stained pits on the bone surface. This correlated with the presence of multiple large, multinucleated, TRAP positive cells.

FIG. 8. Graph showing the whole blood ionized calcium (iCa) levels from mice injected with OPG binding protein, 51 hours after the first injection, and in mice also receiving concurrent OPG administration. OPG binding protein significantly and dose dependently increased iCa levels. OPG (1 mg/kg/day) completely blocked the increase in iCa at a dose of OPG binding protein of 5 ug/day, and partially blocked the increase at a dose of OPG binding protein of 25 ug/day. (*), different to vehicle treated control (p less-than 0.05). (#), OPG treated iCa level significantly different to level in mice receiving that dose of OPG binding protein alone (p less-than 0.05).

FIG. 9. Radiographs of the left femur and tibia in mice treated with 0, 5, 25 or 100 ug/day of OPG binding protein for 3.5 days. There is a dose dependent decrease in bone density evident most clearly in the proximal tibial metaphysis of these mice, and that is profound at a dose of 100 ug/day.

L3 ANSWER 6 OF 126 USPATFULL on STN
 AN 2003:277129 USPATFULL
 TI Peptides and related molecules that bind to TALL-1
 IN Min, Hosung, Newbury Park, CA, UNITED STATES
 Hsu, Hailing, Moorpark, CA, UNITED STATES
 Xiong, Fei, Thousand Oaks, CA, UNITED STATES
 PA Amgen Inc. (U.S. corporation)
 PI US 2003195156 A1 20031016
 AI US 2002-145206 A1 20020513 (10)
 PRAI US 2001-290196P 20010511 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2728
 INCL INCLM: 514/014.000
 INCLS: 514/015.000
 NCL NCLM: 514/014.000
 NCLS: 514/015.000
 IC [7]
 ICM: A61K038-10
 ICS: A61K038-08
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2003:146245 USPATFULL
 TI TALL-1 receptor molecules and uses thereof
 IN Hsu, Hailing, Moorpark, CA, UNITED STATES
 PA Amgen Inc. A Corporation of the State of Delaware (U.S. corporation)
 PI US 2003099990 A1 20030529
 AI US 2002-251947 A1 20020920 (10)
 PRAI US 2001-324238P 20010921 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 4507
 INCL INCLM: 435/006.000
 INCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;
 536/023.500
 NCL NCLM: 435/006.000
 NCLS: 435/007.200; 435/069.100; 435/320.100; 435/325.000; 530/350.000;
 536/023.500
 IC [7]
 ICM: C12Q001-68
 ICS: G01N033-53; G01N033-567; C07H021-04; C12P021-02; C12N005-06;
 C07K014-705
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 126 USPATFULL on STN
 AN 2003:57548 USPATFULL
 TI Composition and methods for the production of biological tissues and
 tissue constructs
 IN Mizuno, Shuichi, Brookline, MA, UNITED STATES
 Tokuno, Toshimasa, Tokyo, JAPAN
 Berlowitz Tarrant, Laurence J., Easthampton, MA, UNITED STATES
 PA Histogenics Corporation, Easthampton, MA (U.S. corporation)
 PI US 2003040113 A1 20030227
 AI US 2002-104677 A1 20020322 (10)
 PRAI US 2001-278534P 20010323 (60)
 US 2002-352085P 20020124 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1569
 INCL INCLM: 435/395.000
 NCL NCLM: 435/395.000
 IC [7]
 ICM: C12N005-02
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 126 USPATFULL on STN
 AN 2003:29843 USPATFULL
 TI Use of rank antagonists to treat cancer
 IN Dougall, William C., Seattle, WA, UNITED STATES
 PI US 2003021785 A1 20030130
 AI US 2002-166232 A1 20020605 (10)
 PRAI US 2001-296670P 20010606 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1870
 INCL INCLM: 424/146.100
 INCLS: 514/012.000; 514/044.000
 NCL NCLM: 424/146.100
 NCLS: 514/012.000; 514/044.000
 IC [7]
 ICM: A61K048-00
 ICS: A61K038-17; A61K039-395
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 126 USPATFULL on STN
 AN 2003:23315 USPATFULL
 TI Therapeutic use of rank antagonists
 IN Dougall, William C., Seattle, WA, UNITED STATES
 Anderson, Dirk M., Seattle, WA, UNITED STATES
 PI US 2003017151 A1 20030123
 AI US 2002-151071 A1 20020517 (10)
 PRAI US 2001-291919P 20010517 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2176
 INCL INCLM: 424/143.100
 INCLS: 514/044.000

IC NCLS: 514/044.000
[7]
ICM: A61K048-00
ICS: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 126 USPATFULL on STN
AN 2003:17899 USPATFULL
TI Stimulation of osteogenesis using rank ligand fusion proteins
IN Lam, Jonathan, West Memphis, AR, UNITED STATES
Ross, F. Patrick, Olivette, MO, UNITED STATES
Teitelbaum, Steven L., University City, MO, UNITED STATES
PA Barnes-Jewish Hospital (2)
PI US 2003013651 A1 20030116
AI US 2002-105057 A1 20020322 (10)
PRAI US 2001-277855P 20010322 (60)
US 2001-311163P 20010809 (60)
US 2001-329231P 20011012 (60)
US 2001-328876P 20011012 (60)
US 2001-329393P 20011015 (60)
DT Utility
FS APPLICATION
LN.CNT 1942
INCL INCLM: 514/012.000
NCL NCLM: 514/012.000
IC [7]
ICM: A61K038-17
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 126 USPATFULL on STN DUPLICATE 4
AN 2002:156701 USPATFULL
TI Methods and compositions of matter concerning APRIL/G70, BCMA,
BLYS/AGP-3 and TACI
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
Yu, Gang, Thousand Oaks, CA, UNITED STATES
PI US 2002081296 A1 20020627
US 6774106 B2 20040810
AI US 2001-854864 A1 20010514 (9)
PRAI US 2000-204039P 20000512 (60)
US 2000-214591P 20000627 (60)
DT Utility
FS APPLICATION
LN.CNT 2383
INCL INCLM: 424/144.100
INCLS: 424/155.100
NCL NCLM: 514/012.000
NCLS: 424/185.100; 424/192.100
IC [7]
ICM: A61K039-395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 126 USPATFULL on STN
AN 2002:287553 USPATFULL
TI Receptor from TNF family
IN Boyle, William J., Moorpark, CA, UNITED STATES
Hsu, Hailing, Moorpark, CA, UNITED STATES
PI US 2002160416 A1 20021031
AI US 2001-779050 A1 20010212 (9)
PRAI US 2000-181800P 20000211 (60)
DT Utility
FS APPLICATION
LN.CNT 2856
INCL INCLM: 435/007.100
INCLS: 530/389.100; 530/395.000; 536/053.000
NCL NCLM: 435/007.100
NCLS: 530/389.100; 530/395.000; 536/053.000
IC [7]
ICM: G01N033-53
ICS: C07K016-46; C08B037-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 126 USPATFULL on STN
AN 2002:272856 USPATFULL
TI TNF receptor-like molecules and uses thereof
IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES

Slubiger, Scott Michael, Woodland Hills, CA, UNITED STATES
 Yu, Gang, Thousand Oaks, CA, UNITED STATES
 Senaldi, Giorgio, Thousand Oaks, CA, UNITED STATES
 PI US 2002150977 A1 20021017
 AI US 2001-948018 A1 20010905 (9)
 PRAI US 2000-230191P 20000905 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 5781
 INCL INCLM: 435/069.100
 INCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500; 435/194.000
 NCL NCLM: 435/069.100
 NCLS: 435/325.000; 435/320.100; 530/350.000; 536/023.500; 435/194.000
 IC [7]
 ICM: C12P021-02
 ICS: C12N005-06; C07H021-04; C12N009-12
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 126 USPATFULL on STN
 AN 2002:164694 USPATFULL
 TI Screening assays for agonists and antagonists of receptor activator of
 NF-kappa B
 IN Dougall, William C., Seattle, WA, UNITED STATES
 PI US 2002086312 A1 20020704
 AI US 2001-957944 A1 20010920 (9)
 PRAI US 2000-235157P 20000922 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3029
 INCL INCLM: 435/006.000
 INCLS: 435/007.210
 NCL NCLM: 435/006.000
 NCLS: 435/007.210
 IC [7]
 ICM: C12Q001-68
 ICS: G01N033-567
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 126 USPATFULL on STN
 AN 2002:164405 USPATFULL
 TI Methods and compositions of matter concerning APRIL/G70, BCMA,
 BLYS/AGP-3, and TACI
 IN Theill, Lars Eyde, Thousand Oaks, CA, UNITED STATES
 Yu, Gang, Thousand Oaks, CA, UNITED STATES
 PI US 2002086018 A1 20020704
 AI US 2001-855158 A1 20010514 (9)
 PRAI US 2000-204039P 20000512 (60)
 US 2000-214591P 20000627 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1973
 INCL INCLM: 424/146.100
 INCLS: 424/153.100
 NCL NCLM: 424/146.100
 NCLS: 424/153.100
 IC [7]
 ICM: A61K039-395
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 126 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
 DUPLICATE
 AN 2002:34223904 BIOTECHNO
 TI Antagonistic selective binding agents of ***osteoprotegerin***
 binding ***protein***
 SO Expert Opinion on Therapeutic Patents, (2002), 12/3 (469-470), 5
 reference(s)
 CODEN: EOTPEG ISSN: 1354-3776
 DT Journal; Article
 CY United Kingdom
 LA English
 SL English

L3 ANSWER 18 OF 126 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
 STN DUPLICATE 6
 AN 2002:225630 BIOSIS

T1 Methods of use for osetoprotegerin binding protein receptors.
AU Boyle, William J. [Inventor]
CS ASSIGNEE: Amgen Inc.
PI US 6316408 November 13, 2001
SO Official Gazette of the United States Patent and Trademark Office Patents,
(Nov. 13, 2001) Vol. 1252, No. 2. [http://www.uspto.gov/web/menu/patdata.ht](http://www.uspto.gov/web/menu/patdata.html)
ml. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 3 Apr 2002
Last Updated on STN: 3 Apr 2002

L3 ANSWER 19 OF 126 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 7
AN 2002-00826 BIOTECHDS
TI Antibodies that bind antagonistically to osteoprotein binding, useful for
treating osteoporosis, metastasis of cancer to bone, rheumatoid arthritis,
hypercalcemia of malignancy and steroid osteoporosis;
monoclonal antibody and humanized antibody, vector expression in CHO
cell
AU Deshpande R V; Hitz A; Boyle W J; Sullivan J K
PA Amgen
LO Thousand Oaks, CA, USA.
PI WO 2001062932 30 Aug 2001
AI WO 2001-US5973 23 Feb 2001
PRAI US 2001-791153 22 Mar 2001; US 2000-511139 23 Feb 2000
DT Patent
LA English
OS WPI: 2001-557706 [62]

L3 ANSWER 20 OF 126 USPATFULL on STN
AN 2001:14213 USPATFULL
TI Method for diagnosing and treating chronic pelvic pain syndrome
IN Alexander, Richard B., Ellicott City, MD, United States
Ponniah, Sathibalan, Ellicott City, MD, United States
PA University of Maryland, Baltimore, Baltimore, MD, United States (U.S.
corporation)
PI US 6180355 B1 20010130
AI US 1999-306927 19990507 (9)
PRAI US 1998-84668P 19980507 (60)
DT Utility
FS Granted
LN.CNT 3501
INCL INCLM: 435/007.100
INCLS: 435/007.800
NCL NCLM: 435/007.100
NCLS: 435/007.800
IC [7]
ICM: G01N033-50
ICS: G01N033-53
EXF 435/7.1; 435/7.8; 435/7.92; 435/7.94; 424/1.41; 424/145.1; 424/158.1;
436/501; 436/86; 436/87
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 126 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN DUPLICATE 8
AN 1999:71302 BIOSIS
DN PREV199900071302
TI ***Osteoprotegerin*** ***binding*** ***proteins***
AU Boyle, W. J. [Inventor]
CS Moorpark, Calif., USA
ASSIGNEE: AMGEN INC.
PI US 5843678 Dec. 1, 1998
SO Official Gazette of the United States Patent and Trademark Office Patents,
(Dec. 1, 1998) Vol. 1217, No. 1, pp. 472. print.
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 1 Mar 1999
Last Updated on STN: 1 Mar 1999

L3 ANSWER 22 OF 126 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:712352 CAPLUS
DN 129:328897

for use in the treatment of bone loss
 IN Boyle, William J.
 PA Amgen Inc., USA
 SO PCT Int. Appl., 108 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846751	A1	19981022	WO 1998-US7584	19980415
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5843678	A	19981201	US 1997-842842	19970416
	US 6316408	B1	20011113	US 1998-52521	19980330
	AU 9871205	A1	19981111	AU 1998-71205	19980415
	AU 743257	B2	20020124		
	EP 975754	A1	20000202	EP 1998-918244	19980415
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9808545	A	20000523	BR 1998-8545	19980415
	EE 9900611	A	20000815	EE 1999-611	19980415
	JP 2001526532	T2	20011218	JP 1998-544257	19980415
	NZ 500253	A	20020927	NZ 1998-500253	19980415
	ZA 9803189	A	19981016	ZA 1998-3189	19980416
	US 2003104485	A1	20030605	US 1998-79569	19980514
	MX 9909387	A	20000630	MX 1999-9387	19991013
	NO 9905044	A	19991215	NO 1999-5044	19991015
PRAI	US 1997-842842	A	19970416		
	US 1997-880855	A2	19970623		
	US 1998-52521	A	19980330		
	WO 1998-US7584	W	19980415		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 23 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83201 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine osteoclast differentiation and activation receptor peptide.

L3 ANSWER 24 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83200 Protein DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR N-PSDB: AAV70304
 DESC Murine osteoclast differentiation and activation receptor.

L3 ANSWER 25 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83199 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** EF
 loop-Cys peptide.

L3 ANSWER 26 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83198 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** EF
 loop peptide.

L3 ANSWER 27 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83197 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** BB'
 loop-Cys peptide.

L3 ANSWER 28 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83196 peptide DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** BB'
 loop peptide.

L3 ANSWER 29 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83195 Protein DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.

diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR N-PSDB: AAV70285
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** from
 the pcDNA/huOPGbp1.insert.

L3 ANSWER 30 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW83194 Protein DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR N-PSDB: AAV70284
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** from
 the 32D-F3 ins.

L3 ANSWER 31 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70306 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine osteoclast differentiation and activation receptor PCR primer #2.

L3 ANSWER 32 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70305 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine osteoclast differentiation and activation receptor PCR primer #1.

L3 ANSWER 33 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70304 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.

AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR P-PSDB: AAW83200
 DESC Murine osteoclast differentiation and activation receptor encoding DNA.

L3 ANSWER 34 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70303 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1616-42.

L3 ANSWER 35 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70302 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1616-41.

L3 ANSWER 36 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70301 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1616-44.

L3 ANSWER 37 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70300 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416

D'I Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
 primer 1602-59.

L3 ANSWER 38 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70299 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623

DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
 primer 1602-61.

L3 ANSWER 39 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70298 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623

DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
 primer 1581-74.

L3 ANSWER 40 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70297 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623

DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
 primer 1581-75.

L3 ANSWER 41 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70296 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623

DT Patent
 LA English
 OS 1998-594578 [50]

primer 1581-73.

L3 ANSWER 42 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV70295 DNA DGENE
TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
treating bone diseases by modulating osteoclast differentiation and for
diagnosis
IN Boyle W J
PA (AMGE-N) AMGEN INC.
PI WO 9846751 A1 19981022 47p
AI WO 1998-US7584 19980415
PRAI US 1998-52521 19980330
US 1997-842842 19970416
US 1997-880855 19970623
DT Patent
LA English
OS 1998-594578 [50]
DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
primer 1619-86.

L3 ANSWER 43 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV70294 DNA DGENE
TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
treating bone diseases by modulating osteoclast differentiation and for
diagnosis
IN Boyle W J
PA (AMGE-N) AMGEN INC.
PI WO 9846751 A1 19981022 47p
AI WO 1998-US7584 19980415
PRAI US 1998-52521 19980330
US 1997-842842 19970416
US 1997-880855 19970623
DT Patent
LA English
OS 1998-594578 [50]
DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
primer 1600-98.

L3 ANSWER 44 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV70293 DNA DGENE
TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
treating bone diseases by modulating osteoclast differentiation and for
diagnosis
IN Boyle W J
PA (AMGE-N) AMGEN INC.
PI WO 9846751 A1 19981022 47p
AI WO 1998-US7584 19980415
PRAI US 1998-52521 19980330
US 1997-842842 19970416
US 1997-880855 19970623
DT Patent
LA English
OS 1998-594578 [50]
DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
primer 1591-92.

L3 ANSWER 45 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAV70292 DNA DGENE
TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
treating bone diseases by modulating osteoclast differentiation and for
diagnosis
IN Boyle W J
PA (AMGE-N) AMGEN INC.
PI WO 9846751 A1 19981022 47p
AI WO 1998-US7584 19980415
PRAI US 1998-52521 19980330
US 1997-842842 19970416
US 1997-880855 19970623
DT Patent
LA English
OS 1998-594578 [50]
DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
primer 1591-91.

L3 ANSWER 46 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN

T1 Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-94.

L3 ANSWER 47 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70290 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-93.

L3 ANSWER 48 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70289 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-95.

L3 ANSWER 49 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70288 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis
 IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR primer 1591-90.

L3 ANSWER 50 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70287 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g. treating bone diseases by modulating osteoclast differentiation and for diagnosis

PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
 primer 1581-76.

L3 ANSWER 51 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70286 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis

IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 DESC Murine ***osteoprotegerin*** ***binding*** ***protein*** PCR
 primer 1581-72.

L3 ANSWER 52 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70285 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis

IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR P-PSDB: AAW83195
 DESC Human ***osteoprotegerin*** ***binding*** ***protein*** from
 the pcDNA/huOPGbp1.1insert.

L3 ANSWER 53 OF 126 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAV70284 DNA DGENE
 TI Nucleic acid encoding osteoprotegrin binding protein - useful for, e.g.
 treating bone diseases by modulating osteoclast differentiation and for
 diagnosis

IN Boyle W J
 PA (AMGE-N) AMGEN INC.
 PI WO 9846751 A1 19981022 47p
 AI WO 1998-US7584 19980415
 PRAI US 1998-52521 19980330
 US 1997-842842 19970416
 US 1997-880855 19970623
 DT Patent
 LA English
 OS 1998-594578 [50]
 CR P-PSDB: AAW83194
 DESC Human ***osteoprotegerin*** ***binding*** ***protein***
 encoding DNA from the 32D-F3 ins.

L3 ANSWER 54 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232668 GenBank (R)
 GenBank ACC. NO. (GBN): AX232668
 GenBank VERSION (VER): AX232668.1 GI:15592662
 CAS REGISTRY NO. (RN): 357143-84-1
 SEQUENCE LENGTH (SQL): 23

DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 154 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 4 a 9 c 5 g 5 t
 REFERENCE: 1 (bases 1 to 23)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 154 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..23	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 ccgggcgcgc cttattaaca ctc

L3 ANSWER 55 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232667 GenBank (R)
 GenBank ACC. NO. (GBN): AX232667
 GenBank VERSION (VER): AX232667.1 GI:15592661
 CAS REGISTRY NO. (RN): 357143-83-0
 SEQUENCE LENGTH (SQL): 51
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 153 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 8 a 16 c 20 g 7 t
 REFERENCE: 1 (bases 1 to 51)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 153 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..51	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 ccggtcaaca cactacgtac gtgtgcggcg gcgcgggcgt tcggccaagg g

L3 ANSWER 56 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232666 GenBank (R)
 GenBank ACC. NO. (GBN): AX232666
 GenBank VERSION (VER): AX232666.1 GI:15592660
 CAS REGISTRY NO. (RN): 382255-02-9
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 152 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 6 a 13 c 16 g 13 t
 REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 152 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..48	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

```
1 ccgctcagct cctggggctc ctgctattgt ggttgagagg tgccagat
```

L3 ANSWER 57 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232665 GenBank (R)
 GenBank ACC. NO. (GBN): AX232665
 GenBank VERSION (VER): AX232665.1 GI:15592659
 CAS REGISTRY NO. (RN): 357143-82-9
 SEQUENCE LENGTH (SQL): 40
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 151 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

NUCLEIC ACID COUNT (NA): 7 a 7 c 17 g 9 t
 REFERENCE: 1 (bases 1 to 40)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 151 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..40	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

```
1 gtgggtgaga ggtgccagat gtcagggtcca gctggtgcag
```

L3 ANSWER 58 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232664 GenBank (R)
 GenBank ACC. NO. (GBN): AX232664
 GenBank VERSION (VER): AX232664.1 GI:15592658
 CAS REGISTRY NO. (RN): 357143-81-8
 SEQUENCE LENGTH (SQL): 53
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 150 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

NUCLEIC ACID COUNT (NA): 12 a 8 c 17 g 16 t
 REFERENCE: 1 (bases 1 to 53)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 150 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..53	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

```
1 gtgtattact gtgcgagaga tgccgcagct atggttcggg gaattattat agc
```

L3 ANSWER 59 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232663 GenBank (R)
 GenBank ACC. NO. (GBN): AX232663

CAS REGISTRY NO. (RN): 357143-80-7
 SEQUENCE LENGTH (SQL): 53
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 149 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 8 c 16 g 17 t
 REFERENCE: 1 (bases 1 to 53)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 149 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..53	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtgtattact gtgcgagaga ttccgcagct atggttcggg gaattattat agc

L3 ANSWER 60 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232662 GenBank (R)
 GenBank ACC. NO. (GBN): AX232662
 GenBank VERSION (VER): AX232662.1 GI:15592656
 CAS REGISTRY NO. (RN): 357143-79-4
 SEQUENCE LENGTH (SQL): 53
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 148 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 8 c 16 g 17 t
 REFERENCE: 1 (bases 1 to 53)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 148 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..53	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtgtattact gtgcgagaga tgcctcagct atggttcggg gaattattat agc

L3 ANSWER 61 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232661 GenBank (R)
 GenBank ACC. NO. (GBN): AX232661
 GenBank VERSION (VER): AX232661.1 GI:15592655
 CAS REGISTRY NO. (RN): 357143-78-3
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 147 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 6 c 15 g 15 t
 REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of

protein

JOURNAL (SO): Patent: WO 0162932-A 147 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..48	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtgtattact gtgcgagaga tgccgcaaat atggttcggg gaattatt

L3 ANSWER 62 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232660 GenBank (R)

GenBank ACC. NO. (GBN): AX232660

GenBank VERSION (VER): AX232660.1 GI:15592654

CAS REGISTRY NO. (RN): 382255-01-8

SEQUENCE LENGTH (SQL): 30

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 146 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 7 a 5 c 14 g 4 t

REFERENCE: 1 (bases 1 to 30)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of

osteoprotegerin

binding

protein

JOURNAL (SO): Patent: WO 0162932-A 146 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..30	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtggaggcac tagagacggt gaccagggtg

L3 ANSWER 63 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232659 GenBank (R)

GenBank ACC. NO. (GBN): AX232659

GenBank VERSION (VER): AX232659.1 GI:15592653

CAS REGISTRY NO. (RN): 357143-77-2

SEQUENCE LENGTH (SQL): 36

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 145 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 7 a 13 c 8 g 8 t

REFERENCE: 1 (bases 1 to 36)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of

osteoprotegerin

binding

protein

JOURNAL (SO): Patent: WO 0162932-A 145 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cacagccgtg tcttcagatc tcagactgcg cagctc

L3 ANSWER 64 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232658 GenBank (R)
 GenBank ACC. NO. (GBN): AX232658
 GenBank VERSION (VER): AX232658.1 GI:15592652
 CAS REGISTRY NO. (RN): 357143-76-1
 SEQUENCE LENGTH (SQL): 52
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 144 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 17 c 15 g 8 t
 REFERENCE: 1 (bases 1 to 52)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 144 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..52	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 cagcagaagc ttagaccacc atggacatga gggccccgc tcagctcctg gg

L3 ANSWER 65 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232657 GenBank (R)
 GenBank ACC. NO. (GBN): AX232657
 GenBank VERSION (VER): AX232657.1 GI:15592651
 CAS REGISTRY NO. (RN): 382255-00-7
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 143 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 11 a 7 c 13 g 11 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 143 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 agtctgagat ctgaagacac ggctgtgtat tactgtgcga ga

L3 ANSWER 66 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232656 GenBank (R)
 GenBank ACC. NO. (GBN): AX232656
 GenBank VERSION (VER): AX232656.1 GI:15592650
 CAS REGISTRY NO. (RN): 357143-75-0
 SEQUENCE LENGTH (SQL): 41
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 142 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 13 c 5 g 9 t

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 142 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..41	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatca cattgaggaa tctctcgcac a

L3 ANSWER 67 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232655 GenBank (R)
 GenBank ACC. NO. (GBN): AX232655
 GenBank VERSION (VER): AX232655.1 GI:15592649
 CAS REGISTRY NO. (RN): 357143-74-9
 SEQUENCE LENGTH (SQL): 41
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 141 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 13 c 6 g 10 t
 REFERENCE: 1 (bases 1 to 41)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 141 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..41	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatct cgttgaggaa tctctcgcac a

L3 ANSWER 68 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232654 GenBank (R)
 GenBank ACC. NO. (GBN): AX232654
 GenBank VERSION (VER): AX232654.1 GI:15592648
 CAS REGISTRY NO. (RN): 357143-73-8
 SEQUENCE LENGTH (SQL): 43
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 140 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 13 a 13 c 8 g 9 t
 REFERENCE: 1 (bases 1 to 43)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 140 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..43	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

LOCUS (LOC): AX232653 GenBank (R)
 GenBank ACC. NO. (GBN): AX232653
 GenBank VERSION (VER): AX232653.1 GI:15592647
 CAS REGISTRY NO. (RN): 357143-72-7
 SEQUENCE LENGTH (SQL): 43
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 139 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 12 c 7 g 10 t
 REFERENCE: 1 (bases 1 to 43)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 139 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..43	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatga tacgttgagg aatctctcgc aca

LOCUS (LOC): AX232652 GenBank (R)
 GenBank ACC. NO. (GBN): AX232652
 GenBank VERSION (VER): AX232652.1 GI:15592646
 CAS REGISTRY NO. (RN): 357143-71-6
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 138 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 13 c 5 g 11 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 138 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat tcacatggaa tctctcgcac agta

LOCUS (LOC): AX232651 GenBank (R)
 GenBank ACC. NO. (GBN): AX232651
 GenBank VERSION (VER): AX232651.1 GI:15592645
 CAS REGISTRY NO. (RN): 357143-70-5
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 137 from Patent WO0162932.
 SOURCE: synthetic construct.

artificial sequence
 NUCLEIC ACID COUNT (NA): 13 a 13 c 6 g 12 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 137 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat tctcgtggaa tctctcgcac agta

L3 ANSWER 72 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232650 GenBank (R)
 GenBank ACC. NO. (GBN): AX232650
 GenBank VERSION (VER): AX232650.1 GI:15592644
 CAS REGISTRY NO. (RN): 357143-69-2
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 136 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 13 c 8 g 11 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 136 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat tgcgacgtgg aatctctcgc acagta

L3 ANSWER 73 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232649 GenBank (R)
 GenBank ACC. NO. (GBN): AX232649
 GenBank VERSION (VER): AX232649.1 GI:15592643
 CAS REGISTRY NO. (RN): 357143-68-1
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 135 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 12 c 7 g 12 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 135 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat tgatacgtgg aatctctcgc acagta

L3 ANSWER 74 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232648 GenBank (R)

GenBank ACC. NO. (GBN): AX232648

GenBank VERSION (VER): AX232648.1 GI:15592642

CAS REGISTRY NO. (RN): 357143-67-0

SEQUENCE LENGTH (SQL): 44

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 134 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 15 a 13 c 4 g 12 t

REFERENCE: 1 (bases 1 to 44)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of

osteoprotegerin ***binding***

protein

JOURNAL (SO): Patent: WO 0162932-A 134 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgacacata tctctcgcac agta

L3 ANSWER 75 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232647 GenBank (R)

GenBank ACC. NO. (GBN): AX232647

GenBank VERSION (VER): AX232647.1 GI:15592641

CAS REGISTRY NO. (RN): 357143-66-9

SEQUENCE LENGTH (SQL): 44

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 133 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 13 a 13 c 5 g 13 t

REFERENCE: 1 (bases 1 to 44)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of

osteoprotegerin ***binding***

protein

JOURNAL (SO): Patent: WO 0162932-A 133 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..44	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 aataattccc cgaaccatat ttgactcgta tctctcgcac agta

L3 ANSWER 76 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232646 GenBank (R)

GenBank ACC. NO. (GBN): AX232646

GenBank VERSION (VER): AX232646.1 GI:15592640

CAS REGISTRY NO. (RN): 357143-65-8

SEQUENCE LENGTH (SQL): 46

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DEFINITION (DEF): Sequence 132 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 13 c 7 g 12 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 132 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat ttgagcgacg tatctctcgc acagta

L3 ANSWER 77 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232645 GenBank (R)
 GenBank ACC. NO. (GBN): AX232645
 GenBank VERSION (VER): AX232645.1 GI:15592639
 CAS REGISTRY NO. (RN): 357143-64-7
 SEQUENCE LENGTH (SQL): 46
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 131 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 15 a 12 c 6 g 13 t
 REFERENCE: 1 (bases 1 to 46)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 131 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..46	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 aataattccc cgaaccatat ttgagatagc tatctctcgc acagta

L3 ANSWER 78 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232644 GenBank (R)
 GenBank ACC. NO. (GBN): AX232644
 GenBank VERSION (VER): AX232644.1 GI:15592638
 CAS REGISTRY NO. (RN): 382254-99-1
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 130 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 8 c 5 g 9 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 130 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

=====+=====+=====+
source 1..36 /organism="synthetic construct"
/db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtacgcta taataattcc ccgaac

L3 ANSWER 79 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232643 GenBank (R)
GenBank ACC. NO. (GBN): AX232643
GenBank VERSION (VER): AX232643.1 GI:15592637
CAS REGISTRY NO. (RN): 382254-98-0
SEQUENCE LENGTH (SQL): 36
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 129 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 9 a 11 c 10 g 6 t
REFERENCE: 1 (bases 1 to 36)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 129 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cagggtgccc tggccccagt agtcaaaata gtacgc

L3 ANSWER 80 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232642 GenBank (R)
GenBank ACC. NO. (GBN): AX232642
GenBank VERSION (VER): AX232642.1 GI:15592636
CAS REGISTRY NO. (RN): 357143-63-6
SEQUENCE LENGTH (SQL): 32
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 128 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 5 a 11 c 11 g 5 t
REFERENCE: 1 (bases 1 to 32)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 128 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..32	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 cttgagacgg tgaccagggt gccctggccc ca

L3 ANSWER 81 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232641 GenBank (R)
GenBank ACC. NO. (GBN): AX232641
GenBank VERSION (VER): AX232641.1 GI:15592635
CAS REGISTRY NO. (RN): 382254-97-9

MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 127 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 5 c 10 g 12 t
 REFERENCE: 1 (bases 1 to 39)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 127 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 agagattcct caaatatggt tcggggaatt attatagcg

L3 ANSWER 82 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232640 GenBank (R)
 GenBank ACC. NO. (GBN): AX232640
 GenBank VERSION (VER): AX232640.1 GI:15592634
 CAS REGISTRY NO. (RN): 382254-96-8
 SEQUENCE LENGTH (SQL): 33
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 126 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 5 c 8 g 11 t
 REFERENCE: 1 (bases 1 to 33)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 126 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..33	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtgtattact gtgcgagaga ttcctcaaat atg

L3 ANSWER 83 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232639 GenBank (R)
 GenBank ACC. NO. (GBN): AX232639
 GenBank VERSION (VER): AX232639.1 GI:15592633
 CAS REGISTRY NO. (RN): 357143-62-5
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 125 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 11 a 7 c 13 g 11 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

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1 agtctgagat ctgaagacac ggctgtgtat tactgtgcga ga
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L3 ANSWER 84 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232638 GenBank (R)

GenBank ACC. NO. (GBN): AX232638

GenBank VERSION (VER): AX232638.1 GI:15592632

CAS REGISTRY NO. (RN): 357143-61-4

SEQUENCE LENGTH (SQL): 39

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 124 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct
artificial sequence

NUCLEIC ACID COUNT (NA): 9 a 12 c 11 g 7 t

REFERENCE: 1 (bases 1 to 39)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 124 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

```
1 cagggtgccc tggccccagg cgtcaaaata gtacgctat
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L3 ANSWER 85 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232637 GenBank (R)

GenBank ACC. NO. (GBN): AX232637

GenBank VERSION (VER): AX232637.1 GI:15592631

CAS REGISTRY NO. (RN): 357143-60-3

SEQUENCE LENGTH (SQL): 39

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 123 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct
artificial sequence

NUCLEIC ACID COUNT (NA): 10 a 11 c 11 g 7 t

REFERENCE: 1 (bases 1 to 39)

AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 123 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

```
1 cagggtgccc tggccccagt aggcaaaata gtacgctat
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L3 ANSWER 86 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232636 GenBank (R)

GenBank VERSION (VER): AX232636.1 GI:15592630
 CAS REGISTRY NO. (RN): 357143-59-0
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 122 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 10 a 12 c 11 g 9 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 122 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 cagggtgcc tggccccagt agtcagcata gtacgctata at

L3 ANSWER 87 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232635 GenBank (R)
 GenBank ACC. NO. (GBN): AX232635
 GenBank VERSION (VER): AX232635.1 GI:15592629
 CAS REGISTRY NO. (RN): 357143-58-9
 SEQUENCE LENGTH (SQL): 45
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 121 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 13 c 10 g 10 t
 REFERENCE: 1 (bases 1 to 45)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 121 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..45	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 ggtgccctgg cccagtagt caaaagcgta cgctataata attcc

L3 ANSWER 88 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232634 GenBank (R)
 GenBank ACC. NO. (GBN): AX232634
 GenBank VERSION (VER): AX232634.1 GI:15592628
 CAS REGISTRY NO. (RN): 357143-57-8
 SEQUENCE LENGTH (SQL): 45
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 120 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 13 c 10 g 10 t
 REFERENCE: 1 (bases 1 to 45)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.

osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 120 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..45	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 ggtgccctgg cccagtagt caaaataggc cgctataata attcc

L3 ANSWER 89 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232633 GenBank (R)

GenBank ACC. NO. (GBN): AX232633

GenBank VERSION (VER): AX232633.1 GI:15592627

CAS REGISTRY NO. (RN): 357143-56-7

SEQUENCE LENGTH (SQL): 36

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 119 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 13 a 9 c 6 g 8 t

REFERENCE: 1 (bases 1 to 36)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 119 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtagcgtg caataattcc ccgaac

L3 ANSWER 90 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232632 GenBank (R)

GenBank ACC. NO. (GBN): AX232632

GenBank VERSION (VER): AX232632.1 GI:15592626

CAS REGISTRY NO. (RN): 357143-55-6

SEQUENCE LENGTH (SQL): 39

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 118 from Patent WO0162932.

SOURCE: synthetic construct.

ORGANISM (ORGN): synthetic construct

artificial sequence

NUCLEIC ACID COUNT (NA): 13 a 10 c 7 g 9 t

REFERENCE: 1 (bases 1 to 39)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 118 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtagcgtg tggcaattcc ccgaacat

LOCUS (LOC): AX232631 GenBank (R)
 GenBank ACC. NO. (GBN): AX232631
 GenBank VERSION (VER): AX232631.1 GI:15592625
 CAS REGISTRY NO. (RN): 357143-54-5
 SEQUENCE LENGTH (SQL): 42
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 117 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 10 c 7 g 11 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 117 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtagtcaaaa tagtacgcta taatggctcc ccgaaccata tt

L3 ANSWER 92 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232630 GenBank (R)
 GenBank ACC. NO. (GBN): AX232630
 GenBank VERSION (VER): AX232630.1 GI:15592624
 CAS REGISTRY NO. (RN): 357143-53-4
 SEQUENCE LENGTH (SQL): 45
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 116 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 17 a 8 c 7 g 13 t
 REFERENCE: 1 (bases 1 to 45)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 116 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..45	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gtagtcaaaa tagtacgcta taataattgc ccgaaccata ttgtga

L3 ANSWER 93 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232629 GenBank (R)
 GenBank ACC. NO. (GBN): AX232629
 GenBank VERSION (VER): AX232629.1 GI:15592623
 CAS REGISTRY NO. (RN): 357143-52-3
 SEQUENCE LENGTH (SQL): 38
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 115 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

REFERENCE: 1 (bases 1 to 38)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 115 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..38	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gattcctcaa atatggttgc cggaattatt atagcgta

L3 ANSWER 94 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232628 GenBank (R)
 GenBank ACC. NO. (GBN): AX232628
 GenBank VERSION (VER): AX232628.1 GI:15592622
 CAS REGISTRY NO. (RN): 357143-51-2
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 114 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

NUCLEIC ACID COUNT (NA): 10 a 6 c 9 g 11 t

REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 114 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 gattcctcaa atatggctcg gggaattatt atagcg

L3 ANSWER 95 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232627 GenBank (R)
 GenBank ACC. NO. (GBN): AX232627
 GenBank VERSION (VER): AX232627.1 GI:15592621
 CAS REGISTRY NO. (RN): 357143-50-1
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 113 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence

NUCLEIC ACID COUNT (NA): 10 a 10 c 7 g 9 t

REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 113 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

1 aataattccc cgaacggcat ttgaggaatc tctcgc

L3 ANSWER 96 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232626 GenBank (R)
GenBank ACC. NO. (GBN): AX232626
GenBank VERSION (VER): AX232626.1 GI:15592620
CAS REGISTRY NO. (RN): 357143-49-8
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 112 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 13 a 12 c 6 g 8 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 112 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):
Feature Key Location Qualifier
=====+=====+=====

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 aataattccc cgaaccatag ctgaggaatc tctcgaca

L3 ANSWER 97 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232625 GenBank (R)
GenBank ACC. NO. (GBN): AX232625
GenBank VERSION (VER): AX232625.1 GI:15592619
CAS REGISTRY NO. (RN): 357143-48-7
SEQUENCE LENGTH (SQL): 42
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 111 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 13 a 12 c 6 g 11 t
REFERENCE: 1 (bases 1 to 42)
AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 111 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):
Feature Key Location Qualifier
=====+=====+=====

Feature Key	Location	Qualifier
source	1..42	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 aataattccc cgaaccatat ttgcggaatc tctcgacag ta

L3 ANSWER 98 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232624 GenBank (R)
GenBank ACC. NO. (GBN): AX232624
GenBank VERSION (VER): AX232624.1 GI:15592618
CAS REGISTRY NO. (RN): 357143-47-6
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 110 from Patent WO0162932.

ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 9 a 6 c 12 g 12 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 110 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 gtgtattact gtgcgagaga tgcctcaaat atggttcgg

L3 ANSWER 99 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232623 GenBank (R)
GenBank ACC. NO. (GBN): AX232623
GenBank VERSION (VER): AX232623.1 GI:15592617
CAS REGISTRY NO. (RN): 357143-46-5
SEQUENCE LENGTH (SQL): 39
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 109 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 8 a 7 c 11 g 13 t
REFERENCE: 1 (bases 1 to 39)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 109 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 gtgtattact gtgcgagagc ttcctcaaat atggttcgg

L3 ANSWER 100 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232622 GenBank (R)
GenBank ACC. NO. (GBN): AX232622
GenBank VERSION (VER): AX232622.1 GI:15592616
CAS REGISTRY NO. (RN): 357143-45-4
SEQUENCE LENGTH (SQL): 36
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 108 from Patent WO0162932.
SOURCE: synthetic construct.
ORGANISM (ORGN): synthetic construct
artificial sequence
NUCLEIC ACID COUNT (NA): 9 a 11 c 10 g 6 t
REFERENCE: 1 (bases 1 to 36)
AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 108 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
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SEQUENCE (SEQ):

1 cagggtgccc tggccccagt agtcaaaata gtacgc

L3 ANSWER 101 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232621 GenBank (R)
 GenBank ACC. NO. (GBN): AX232621
 GenBank VERSION (VER): AX232621.1 GI:15592615
 CAS REGISTRY NO. (RN): 357143-44-3
 SEQUENCE LENGTH (SQL): 33
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 107 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 9 a 5 c 8 g 11 t
 REFERENCE: 1 (bases 1 to 33)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 107 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..33	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtgtattact gtgcgagaga ttcctcaaat atg

L3 ANSWER 102 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232620 GenBank (R)
 GenBank ACC. NO. (GBN): AX232620
 GenBank VERSION (VER): AX232620.1 GI:15592614
 CAS REGISTRY NO. (RN): 357143-43-2
 SEQUENCE LENGTH (SQL): 36
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 106 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 14 a 8 c 5 g 9 t
 REFERENCE: 1 (bases 1 to 36)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 106 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..36	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):

1 gtagtcaaaa tagtacgcta taataattcc ccgaac

L3 ANSWER 103 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232619 GenBank (R)
 GenBank ACC. NO. (GBN): AX232619
 GenBank VERSION (VER): AX232619.1 GI:15592613
 CAS REGISTRY NO. (RN): 357143-42-1
 SEQUENCE LENGTH (SQL): 39
 MOLECULE TYPE (CI): DNA; linear

DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 105 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 12 a 5 c 10 g 12 t
 REFERENCE: 1 (bases 1 to 39)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 105 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..39	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 agagattcct caaatatggt tcggggaatt attatagcg

L3 ANSWER 104 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232617 GenBank (R)
 GenBank ACC. NO. (GBN): AX232617
 GenBank VERSION (VER): AX232617.1 GI:15592612
 CAS REGISTRY NO. (RN): 357143-41-0
 SEQUENCE LENGTH (SQL): 25
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 103 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 3 a 9 c 4 g 9 t
 REFERENCE: 1 (bases 1 to 25)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 103 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..25	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
 1 cctctcctcg agttagtcta tgtcc

L3 ANSWER 105 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232616 GenBank (R)
 GenBank ACC. NO. (GBN): AX232616
 GenBank VERSION (VER): AX232616.1 GI:15592611
 CAS REGISTRY NO. (RN): 357143-40-9
 SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 102 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 6 a 6 c 8 g 10 t
 REFERENCE: 1 (bases 1 to 30)
 AUTHOR (AU): Deshpande,R.V.; Hitz,A.; Boyle,W.J.; Sullivan,J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 102 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..30	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 ctggctactg aatatcttca gctgatggtg

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LOCUS (LOC): AX232615 GenBank (R)
 GenBank ACC. NO. (GBN): AX232615
 GenBank VERSION (VER): AX232615.1 GI:15592610
 CAS REGISTRY NO. (RN): 357143-39-6
 SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 101 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 6 a 7 c 8 g 9 t
 REFERENCE: 1 (bases 1 to 30)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 101 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..30	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 agtagccagg tctcccgatg tttcatgatg

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LOCUS (LOC): AX232614 GenBank (R)
 GenBank ACC. NO. (GBN): AX232614
 GenBank VERSION (VER): AX232614.1 GI:15592609
 CAS REGISTRY NO. (RN): 357143-38-5
 SEQUENCE LENGTH (SQL): 23
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 100 from Patent WO0162932.
 SOURCE: synthetic construct.
 ORGANISM (ORGN): synthetic construct
 artificial sequence
 NUCLEIC ACID COUNT (NA): 7 a 7 c 4 g 5 t
 REFERENCE: 1 (bases 1 to 23)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 100 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..23	/organism="synthetic construct" /db-xref="taxon:32630"

SEQUENCE (SEQ):
1 cctctcatat ggactacaag gac

L3 ANSWER 108 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232589 GenBank (R)
 GenBank ACC. NO. (GBN): AX232589
 GenBank VERSION (VER): AX232589.1 GI:15592607

SEQUENCE LENGTH (SQL): 522
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 75 from Patent WO0162932.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 149 a 127 c 117 g 129 t

REFERENCE:
 1 (bases 1 to 522)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 75 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..522	/organism="Mus musculus" /db-xref="taxon:10090"
CDS	4..516	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69727.1" /db-xref="GI:15592608" /translation="MDYKDDDDKKLKPEAQPFHAH LTINAASIPSGSHKVTLSWYHDR GWAKISNMTLSNGKLRVNQDGFYYLYANICFRHH ETSGDLATEYQLQMVVVKTSIKI PSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKL RAGEEISIQVSNPSLLDPDQDATY FGAFKVQDID"

SEQUENCE (SEQ):

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1 catatggact acaaggacga cgatgacaag aagcttaagc ctgaggccca gccatttgca
61 cacctcacca tcaatgctgc cagcatccca tcgggttccc ataaagtcac tctgtcctct
121 tgggtaccacg atcgaggctg ggccaagatc tctaactga cgtaagcaa cggaaaacta
181 aggggttaacc aagatggctt ctattacctg tacgctaaca tttgctttcg gcatcatgaa
241 acatcgggag acctggctac tgaatatctt cagctgatgg tgtatgtcgt taaaaccagc
301 atcaaaatcc caagtcttca taacctgatg aaaggaggga gcacgaaaaa ctggtcgggc
361 aattctgaat tccactttta ttccataaat gttgggggat ttttcaagct ccgagctggg
421 gaagaaatta gcattcaggt gtccaaccct tccctgctgg atccggatca agatgcgacg
481 tactttgggg ctttcaaagt tcaggacata gactaactcg ag

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L3 ANSWER 109 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232572 GenBank (R)
 GenBank ACC. NO. (GBN): AX232572
 GenBank VERSION (VER): AX232572.1 GI:15592605
 CAS REGISTRY NO. (RN): 391057-98-0
 SEQUENCE LENGTH (SQL): 681
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 58 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 145 a 207 c 194 g 135 t

REFERENCE:
 1 (bases 1 to 681)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 58 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..681	/organism="Homo sapiens" /db-xref="taxon:9606"


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/codon-start=1
/protein-id="CAC69726.1"
/db-xref="GI:15592606"
/translation="AEVQLLES GGGLVQPGRSLR
LSCAASGFTFDDYAMHWVRQAPGK
GLEWVSGISWNSGRIGYADSVKGRFTISRDNKN
SLYLQMNLSLRPEDTAFYYCAKGGG
TSARYSSGWYYWGQGLTVTVSSASTKGPSVFPLA
PSSKSTSGGTAALGCLVKDYFPEP
VTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVT
VPSSSLGTQTYICNVNHKPSNTKV
DKKVEPKSC"

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SEQUENCE (SEQ):

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1 gccgaggtgc agctgctgga gtctggggga ggcttggtac aacctggcag gtccctgaga
61 ctctcctgtg cagcctcttg attcaccttt gatgattatg ccatgcactg ggtccggcaa
121 gctccaggga agggcctgga gtgggtctca ggtattagtt ggaatagtgg taggataggc
181 tatgcggact ctgtgaaggg ccgattcacc atctccagag acaacgccaa gaactccctg
241 tatctgcaaa tgaacagtct gagacctgag gacacggcct tctattactg tgcaaaaggg
301 gggtctacaa gcgcgaggta tagcagtggc tgggtactact ggggccaggg caccctggtc
361 accgtctcaa gcgcctccac caagggccca tcggtcttcc ccctggcacc ctccctccaag
421 agcacctctg ggggcacagc ggccctgggc tgccctggta aggactactt ccccgaaaccg
481 gtgacgggtg cgtggaactc aggcgcctg accagcggcg tccacacctt cccggctgtc
541 ctacagtcct caggactcta ctccctcagc agcgtagtga ccgtgccctc cagcagcttg
601 ggcacccaga cctacatctg caacgtgaat cacaagccca gcaacaccaa ggtggacaag
661 aaagttgagc ccaaatcttg t

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LOCUS (LOC): AX232570 GenBank (R)
 GenBank ACC. NO. (GBN): AX232570
 GenBank VERSION (VER): AX232570.1 GI:15592603
 CAS REGISTRY NO. (RN): 391057-97-9
 SEQUENCE LENGTH (SQL): 660
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 56 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 142 a 202 c 184 g 132 t
 REFERENCE: 1 (bases 1 to 660)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 56 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..660	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<1..>660	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69725.1" /db-xref="GI:15592604" /translation="AEVQLVQSGGGLVQPGGSLR LSCLVSGFTFNNYPMHWVRQAPGK GLEWVAVISYDGNKYYADSVKGRFTISRDNKN TLYLQMNLSLRSED TAVYYCARGGG GFDYWGQGLTVTVSSASTKGPSVFPLAPSSKSTS GGTAALGCLVKDYFPEPVTVSWNS GALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLG TQTYICNVNHKPSNTKVDKKVEPK SC"

SEQUENCE (SEQ):

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1 gccgaggtcc agctggtgca gtctggggga ggcttggtcc agcctggggg gtccctgaga
61 ctctcctgtt tagtctctgg attcaccttc aataactatc ctatgcactg ggtccggcag
121 gctccaggca aggggctgga gtgggtggca gttatatcat atgatgaaa taataaatac
181 tacgcagact ccgtgaaggg ccgattcacc atctccagag acaattccaa gaacacgctg
241 tatttgcaaa tgaacagcct gagatctgag gacacggccg tgtattactg tgcgaggggg

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361 aagggcccat cggctctccc cctggcaccc tcctccaaga gcacctctgg gggcacagcg
421 gccctgggct gcctgggtcaa ggactacttc cccgaaccgg tgacgggtgtc gtggaactca
481 ggcgccttga ccagcggcgt ccacaccttc ccggctgttc tacagtcttc aggactctac
541 tccctcagca gcgtagtgtg cgtgccctcc agcagcttgg gcacccagac ctacatctgc
601 aacgtgaatc acaagcccag caacaccaag gtggacaaga aagttgagcc caaatcttgt

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L3 ANSWER 111 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

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LOCUS (LOC):          AX232568      GenBank (R)
GenBank ACC. NO. (GBN): AX232568
GenBank VERSION (VER): AX232568.1  GI:15592601
CAS REGISTRY NO. (RN): 391057-96-8
SEQUENCE LENGTH (SQL): 690
MOLECULE TYPE (CI):   DNA; linear
DIVISION CODE (CI):   Patent
DATE (DATE):          11 Sep 2001
DEFINITION (DEF):     Sequence 54 from Patent WO0162932.
SOURCE:               human.
  ORGANISM (ORGN):    Homo sapiens
                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                      Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
                      Hominidae; Homo
NUCLEIC ACID COUNT (NA): 156 a   204 c   193 g   137 t
REFERENCE:             1 (bases 1 to 690)
  AUTHOR (AU):         Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
  TITLE (TI):          Antagonistic selective binding agents of
                      ***osteoprotegerin***      ***binding***
                      ***protein***
  JOURNAL (SO):        Patent: WO 0162932-A 54 30-AUG-2001; Amgen Inc. (US)

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FEATURES (FEAT):
  Feature Key          Location          Qualifier
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source                1..690          /organism="Homo sapiens"
                      /db-xref="taxon:9606"
CDS                   <1..>690      /note="unnamed protein product"
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                      /protein-id="CAC69724.1"
                      /db-xref="GI:15592602"
                      /translation="AEVQLVQSGAEVRKPGASVK
                      VSCKASGYDFSNYAIHWVRQAPGQ
                      RLEWMGWINAGNGNTKFSQKFQGRITVTRDTAAS
                      TAYMELRSLRSEDTAVYYCARDSS
                      NMVRGIIIIAYYFDYWGGQTLTVSSASTKGPSVF
                      PLAPSSKSTSGGTAALGCLVKDYF
                      PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSS
                      VVTVPSSSLGTQTYICNVNHKPSN
                      TKVDKKVEPKSC"

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SEQUENCE (SEQ):
  1 gccgaggtcc agctggtgca gtctggggct gaggtgagga agcctggggc ctcagtgaag
  61 gtttcctgca aggccttctgg atacgacttc agtaattatg ctatacattg ggtgcgccag
  121 gcccccgac aaaggcttga gtggatggga tggatcaacg ctggcaatgg gaacacaaaa
  181 ttttcacaga agttccaggg cagaatcacc gttaccaggg acacagccgc gagcacagcc
  241 tacatggagc tgcgcagtct gagatctgaa gacacggctg tgtattactg tgcgagagat
  301 tcctcaaata tggttcgggg aattattata gcgtactatt ttgactactg gggccagggc
  361 accctggtca ccgtctcaag cgcctccacc aagggcccat cggctctccc cctggcaccc
  421 tcctccaaga gcacctctgg gggcacagcg gccctgggct gcctgggtcaa ggactacttc
  481 cccgaaccgg tgacgggtgtc gtggaactca ggcgccttga ccagcggcgt ccacaccttc
  541 ccggctgttc tacagtcttc aggactctac tccctcagca gcgtagtgtg cgtgccctcc
  601 agcagcttgg gcacccagac ctacatctgc aacgtgaatc acaagcccag caacaccaag
  661 gtggacaaga aagttgagcc caaatcttgt

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L3 ANSWER 112 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

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LOCUS (LOC):          AX232566      GenBank (R)
GenBank ACC. NO. (GBN): AX232566
GenBank VERSION (VER): AX232566.1  GI:15592599
CAS REGISTRY NO. (RN): 391057-95-7
SEQUENCE LENGTH (SQL): 690
MOLECULE TYPE (CI):   DNA; linear
DIVISION CODE (CI):   Patent
DATE (DATE):          11 Sep 2001
DEFINITION (DEF):     Sequence 52 from Patent WO0162932.
SOURCE:               human.

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 156 a 205 c 192 g 137 t

REFERENCE: 1 (bases 1 to 690)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 52 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..690	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<1..>690	/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69723.1"
		/db-xref="GI:15592600"
		/translation="AQVQLVQSGAEVRKPGASVK VSCKASGYDFSNYAIHWVRQAPGQ RLEWMGWINAGNGNTKFSQKFQGRITVTRDTAAS TAYMELRSLRSEDYAVYYCARDSS NMVRGIIIAYYFDYWGGQTLTVTVSSASTKGPSVF PLAPSSKSTSGGTAALGCLVKDYF PEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSS VVTVPSSSLGTQTYICNVNHKPSN TKVDKKVEPKSC"

SEQUENCE (SEQ):

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1  gcccaggtcc agctggtgca gtctggggct gaggtgagga agcctggggc ctcagtgaag
61  gtttcctgca aggcttctgg atacgacttc agtaattatg ctatacattg ggtgcgccag
121 gcccccgac aaaggcttga gtggatggga tggatcaacg ctggcaatgg gaacacaaaa
181 ttttcacaga agttccaggg cagaatcacc gttaccaggg acacagccgc gagcacagcc
241 tacatggagc tgcgcagtct gagatctgaa gacacggctg tgtattactg tgcgagagat
301 tcctcaaata tgggttcgggg aattattata gcgtactatt ttgactactg gggccagggc
361 accctggtca ccgtctcaag cgctccacc aaggggccat cggctctccc cctggcaccc
421 tcctccaaga gcacctctgg gggcacagcg gccctgggct gcctggtcaa ggactacttc
481 cccgaaccgg tgacgggtgtc gtggaactca ggcgccttga ccagcggcgt ccacaccttc
541 ccggctgtcc tacagtcctc aggactctac tccctcagca gcgtagtgtg cgtgcccttc
601 agcagcttgg gcaccagac ctacatctgc aacgtgaatc acaagccag caacaccaag
661 gtggacaaga aagttgagcc caaatcttgt
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L3 ANSWER 113 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232564 GenBank (R)

GenBank ACC. NO. (GBN): AX232564

GenBank VERSION (VER): AX232564.1 GI:15592597

CAS REGISTRY NO. (RN): 391057-94-6

SEQUENCE LENGTH (SQL): 654

MOLECULE TYPE (CI): DNA; linear

DIVISION CODE (CI): Patent

DATE (DATE): 11 Sep 2001

DEFINITION (DEF): Sequence 50 from Patent WO0162932.

SOURCE: human.

ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 163 a 189 c 180 g 122 t

REFERENCE: 1 (bases 1 to 654)

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.

TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein

JOURNAL (SO): Patent: WO 0162932-A 50 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..654	/organism="Homo sapiens"
		/db-xref="taxon:9606"
CDS	<1..>654	/note="unnamed protein product"
		/codon-start=1

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/db-xref="GI:15592598"
/translation="SHSAQSVLTQPPSVSVSPGQ
TATITCSGDALPKQYVYWRQKPG
QAPLLVIYEDSERPSGIPERFSGSSSGTEVTLSTI
SGVQAEDEADYYCQSTDSSGTYYV
FGGGTKLTVLSQPKAAPSVTLFPPSSEELQANKA
TLVCLISDFYPGAVTVAWKADSSP
VKAGVETTTTPSKQSNNKYAASSYLSLTPEQWKSH
RSYSCQVTHEGSTVEKTVAPTECS "

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SEQUENCE (SEQ):

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1 tctcacagtg cacagtctgt gctgactcag ccaccctcgg tgtcagtgtc cccaggacag
61 acggccacga tcacctgctc tggagatgca ttgccaaagc aatatgttta ttggtaccgg
121 cagaagccag gccaggcccc tctattggtg atatatgaag acagtgagag gccctcaggg
181 atccctgaac gattctcttg ctccagttca gggactgaag tcacgttgag tatcagtgga
241 gtccaggcag aagacgaggc tgactattat tgtcaatcaa cagacagcag tgggacttat
301 gtcgtcttcg gcggagggac caagctgacc gtcctaagtc agcccaaggc tgccccctcg
361 gtcactctgt tcccgcctc ctctgaggag cttcaagcca acaaggccac actgggtgtgt
421 ctcataagtg acttctaccc gggagccgtg acagtggcct ggaaggcaga tagcagcccc
481 gtcaaggcgg gagtggagac caccacaccc tccaaacaaa gcaacaacaa gtacgcggcc
541 agcagctatc tgagcctgac gcctgagcag tgggaagccc acagaagcta cagctgccag
601 gtcacgcatg aaggggagcac cgtggagaag acagtggccc ctacagaatg ttca

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L3 ANSWER 114 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232562 GenBank (R)
 GenBank ACC. NO. (GBN): AX232562
 GenBank VERSION (VER): AX232562.1 GI:15592595
 CAS REGISTRY NO. (RN): 391057-93-5
 SEQUENCE LENGTH (SQL): 645
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 48 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 163 a 182 c 171 g 129 t
 REFERENCE: 1 (bases 1 to 645)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 48 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..645	/organism="Homo sapiens"
CDS	<1..>645	/db-xref="taxon:9606" /note="unnamed protein product" /codon-start=1 /protein-id="CAC69721.1" /db-xref="GI:15592596" /translation="HSALEIVMTQSPGTLSPG ERATLSCRASQSVSSSLAWYQQK PGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTL TISRLEPEDFAVYYCQYGAFGGG TKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL LNNFYPREAKVQWKVDNALQSGNS QESVTEQDSKSTYLSSTLTLSKADYEKHKVYA CEVTHQGLNSPVTKSFNRGEC"

SEQUENCE (SEQ):

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1 cacagtgcac ttgaaattgt gatgacacag tctccaggca ccctgtcttt gtctccaggg
61 gaaagagcca ccctctcctg cagggccagt cagagtgtta gcagcagctc cttagcctgg
121 taccagcaga aacctggcca ggctcccagg ctctcatct atggtgcatc cagcagggcc
181 actggcatcc cagacagggt cagtggcagt gggctctgga cagacttcac tctcaccatc
241 agcagactgg agcctgaaga ttttgcaagt tattactgtc agcagtatgg tgctttcggc
301 ggagggacca aggtggagat caaacgaact gtggctgcac catctgtctt catcttcccg
361 ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgctgtct gaataacttc
421 tatcccagag aggccaaagt acagtgggaag gtggataacg ccctccaatc gggtaacttc
481 caggagagtg tcacagagca ggacagcaag gacagcacct acagcctcag cagcacctcg

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601 ggccctgaact cgcccgtcac aaagagcttc aacaggggag agtgt

L3 ANSWER 115 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232560 GenBank (R)
GenBank ACC. NO. (GBN): AX232560
GenBank VERSION (VER): AX232560.1 GI:15592593
CAS REGISTRY NO. (RN): 391057-92-4
SEQUENCE LENGTH (SQL): 645
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 46 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 163 a 188 c 162 g 132 t
REFERENCE: 1 (bases 1 to 645)
AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
TITLE (TI): Antagonistic selective binding agents of
osteoprotegerin ***binding***
protein
JOURNAL (SO): Patent: WO 0162932-A 46 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..645	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	<1..>645	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69720.1" /db-xref="GI:15592594" /translation="SHSALEIVLTQSPATLSFSP GERATLSCRASQSVGSYLAWYQQR PGQAPRPLIYDATNRATGIPTRFSGSGSGTDFTL TISLEPEDFATYYCQHRRTFGRG TKLEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL LNNFYFPREKQVQWKVDNALQSGNS QESVTEQDSKDSSTLSLTLSKADYEEKHKVYA CEVTHQGLSSPVTKSFNRGEC"

SEQUENCE (SEQ):

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1 tctcacagtg cacttgaaat tgtgctgact cagtctccag ccaccctgtc tttttctccg
61 ggtgaaagag ccaccctctc ctgcagggcc agtcagagtg ttggcagcta cttagcctgg
121 taccagcaga gacctggcca ggctcccagg cccctcatct atgatgcaac caacagggcc
181 actggcatcc caaccagggt cagtggcagt gggctctggga cagacttcac tctcaccatc
241 agcagcctag agcctgaaga ttttgcaact tattactgtc aacaccgaag gacttttggc
301 cgggggacca agttggagat caaacgaact gtggctgcac catctgtctt catcttcccg
361 ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc
421 tatcccagag aggccaaagt acagtggaag gtggataacg cctccaatc gggtaactcc
481 caggagagtg tcacagagca ggacagcaag gaagcacct acagcctcag cagcaccctg
541 acgctgagca aagcagacta cgagaaacac aagactctacg cctgcgaagt cactcatcag
601 ggccctgagct cgcccgtcac aaagagcttc aacaggggag agtgt
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L3 ANSWER 116 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232558 GenBank (R)
GenBank ACC. NO. (GBN): AX232558
GenBank VERSION (VER): AX232558.1 GI:15592591
CAS REGISTRY NO. (RN): 391057-91-3
SEQUENCE LENGTH (SQL): 645
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Patent
DATE (DATE): 11 Sep 2001
DEFINITION (DEF): Sequence 44 from Patent WO0162932.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 172 a 177 c 160 g 136 t
REFERENCE: 1 (bases 1 to 645)

TITLE (TI): Antagonistic selective binding agents or
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 44 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..645	/organism="Homo sapiens"
CDS	<1..>645	/db-xref="taxon:9606" /note="unnamed protein product" /codon-start=1 /protein-id="CAC69719.1" /db-xref="GI:15592592" /translation="SHSALEIVMTQSPSSLSASV GDRVITITCRASQSIISRYLNWYQLK PGKAPRLLIYGASSLQSGVPSRFSGSGSGAEFTL TISSLQPEDIAITYYCQHTRAFGQG TKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCL LNNFYFPREAKVQWKVDNALQSGNS QESATEQDSKDSYSLSTLTLSKADYEKHKVYA CEVTHQGLSSPVTKSFNRGEC"

SEQUENCE (SEQ):

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1 tctcacagtgc cacttgaaat tgtgatgacg cagtctccat cctccctgtc tgcgtctggt
61 ggagacagag tcaccatcac ttgccgggca agtcagagca ttagcagata tttaaattgg
121 tatcagctta aaccagggaa agcccctagg ctccctgatct atgggtgcac cagtttgcaa
181 agtggaggtcc catcaagggt cagtggcagt ggatctgggg cagagttcac tctcaccatc
241 agcagctctac aacctgaaga cattgccact tactactgtc aacacactcg ggcgttcggc
301 caagggacca aggttgaaat caagcgaact gtggctgcac catctgtctt catcttcccg
361 ccatctgatg agcagttgaa atctggaact gcctctgttg tgtgcctgct gaataacttc
421 tatcccagag aggccaaagt acagtggaag gtggataacg ccctccaatc gggtaactcc
481 caggagagtg ccacagagca ggacagcaag gacagcacct acagcctcag cagcaccctg
541 acgctgagca aagcagacta cgagaaacac aaagtctacg cctgcgaagt caccatcag
601 ggcctgagct cgcccgtcac aaagagcttc aacaggggag agtgt

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L3 ANSWER 117 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232555 GenBank (R)
 GenBank ACC. NO. (GBN): AX232555
 GenBank VERSION (VER): AX232555.1 GI:15592589
 CAS REGISTRY NO. (RN): 357143-28-3
 SEQUENCE LENGTH (SQL): 32
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 41 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 6 a 10 c 5 g 11 t

REFERENCE:

AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 41 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..32	/organism="Homo sapiens"
CDS	<20..>31	/db-xref="taxon:9606" /note="unnamed protein product" /codon-start=1 /protein-id="CAC69718.1" /db-xref="GI:15592590" /translation="TLSP"

SEQUENCE (SEQ):

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1 tttggacgtc gacttattaa cactctcccc tg

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L3 ANSWER 118 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232553 GenBank (R)
 GenBank ACC. NO. (GBN): AX232553
 GenBank VERSION (VER): AX232553.1 GI:15592587
 CAS REGISTRY NO. (RN): 357143-27-2
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 39 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 11 a 6 c 15 g 12 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 39 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..44	/organism="Homo sapiens"
CDS	<2..>43	/db-xref="taxon:9606"
		/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69717.1"
		/db-xref="GI:15592588"
		/translation="WLRGARCEIVMTQS"

SEQUENCE (SEQ):
 1 gtggttgaga ggtgccagat gtgaaattgt gatgacacag tctc

L3 ANSWER 119 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232551 GenBank (R)
 GenBank ACC. NO. (GBN): AX232551
 GenBank VERSION (VER): AX232551.1 GI:15592585
 CAS REGISTRY NO. (RN): 357143-26-1
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 37 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 6 a 13 c 16 g 13 t
 REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 37 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..48	/organism="Homo sapiens"
CDS	<3..>47	/db-xref="taxon:9606"
		/note="unnamed protein product"
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		/protein-id="CAC69716.1"
		/db-xref="GI:15592586"
		/translation="AQLLGLLLLWLRGAR"

SEQUENCE (SEQ):
 1 ccgctcagct cctggggctc ctgctattgt ggttgagagg tgccagat

L3 ANSWER 120 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232549 GenBank (R)
 GenBank ACC. NO. (GBN): AX232549
 GenBank VERSION (VER): AX232549.1 GI:15592583
 CAS REGISTRY NO. (RN): 357143-25-0
 SEQUENCE LENGTH (SQL): 48
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 35 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 10 a 16 c 14 g 8 t
 REFERENCE: 1 (bases 1 to 48)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 35 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..48	/organism="Homo sapiens" /db-xref="taxon:9606"
CDS	17..>46	/note="unnamed protein product" /codon-start=1 /protein-id="CAC69715.1" /db-xref="GI:15592584" /translation="MDMRVPAQLL"

SEQUENCE (SEQ):
 1 cagaagcttg accaccatgg acatgagggt ccccgctcag ctctctggg

L3 ANSWER 121 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232547 GenBank (R)
 GenBank ACC. NO. (GBN): AX232547
 GenBank VERSION (VER): AX232547.1 GI:15592582
 CAS REGISTRY NO. (RN): 357143-24-9
 SEQUENCE LENGTH (SQL): 30
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 33 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 7 a 5 c 14 g 4 t
 REFERENCE: 1 (bases 1 to 30)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 33 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..30	/organism="Homo sapiens" /db-xref="taxon:9606"

SEQUENCE (SEQ):
 1 gtggaggcac tagagacggt gaccagggtg

L3 ANSWER 122 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232545 GenBank (R)
 GenBank ACC. NO. (GBN): AX232545
 GenBank VERSION (VER): AX232545.1 GI:15592580
 CAS REGISTRY NO. (RN): 357143-23-8

MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 31 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 9 a 12 c 12 g 9 t
 REFERENCE: 1 (bases 1 to 42)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 31 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..42	/organism="Homo sapiens"
CDS	<1..>42	/db-xref="taxon:9606"
		/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69714.1"
		/db-xref="GI:15592581"
		/translation="SVTTGVHSQVQLVQ"

SEQUENCE (SEQ):
 1 tcagtaacga ctggtgtcca ctcacagggtc cagctggtgc ag

L3 ANSWER 123 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232542 GenBank (R)
 GenBank ACC. NO. (GBN): AX232542
 GenBank VERSION (VER): AX232542.1 GI:15592578
 CAS REGISTRY NO. (RN): 357143-22-7
 SEQUENCE LENGTH (SQL): 44
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 28 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 6 a 12 c 10 g 16 t
 REFERENCE: 1 (bases 1 to 44)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 28 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..44	/organism="Homo sapiens"
CDS	<2..31	/db-xref="taxon:9606"
		/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69713.1"
		/db-xref="GI:15592579"
		/translation="AGSFSSSCQ"

SEQUENCE (SEQ):
 1 agctgggtct ttctcttctt cctgtcagta acgactgggtg tcca

L3 ANSWER 124 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232540 GenBank (R)
 GenBank ACC. NO. (GBN): AX232540
 GenBank VERSION (VER): AX232540.1 GI:15592576
 CAS REGISTRY NO. (RN): 357143-21-6

MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 26 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 10 a 11 c 11 g 13 t
 REFERENCE: 1 (bases 1 to 45)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 26 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..45	/organism="Homo sapiens"
CDS	18..>44	/db-xref="taxon:9606"
		/note="unnamed protein product"
		/codon-start=1
		/protein-id="CAC69712.1"
		/db-xref="GI:15592577"
		/translation="MEWSWVFLF"

SEQUENCE (SEQ):
 1 cagaagctta gaccaccatg gaatggagct gggctcttct cttct

L3 ANSWER 125 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232537 GenBank (R)
 GenBank ACC. NO. (GBN): AX232537
 GenBank VERSION (VER): AX232537.1 GI:15592575
 CAS REGISTRY NO. (RN): 383240-49-1
 SEQUENCE LENGTH (SQL): 24
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 23 from Patent WO0162932.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 3 a 5 c 5 g 11 t
 REFERENCE: 1 (bases 1 to 24)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein
 JOURNAL (SO): Patent: WO 0162932-A 23 30-AUG-2001; Amgen Inc. (US)

Feature Key	Location	Qualifier
source	1..24	/organism="Homo sapiens"
		/db-xref="taxon:9606"

SEQUENCE (SEQ):
 1 ttgtcgtct ttccagacgt tagt

L3 ANSWER 126 OF 126 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AX232536 GenBank (R)
 GenBank ACC. NO. (GBN): AX232536
 GenBank VERSION (VER): AX232536.1 GI:15592574
 CAS REGISTRY NO. (RN): 357143-20-5
 SEQUENCE LENGTH (SQL): 18
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Patent
 DATE (DATE): 11 Sep 2001
 DEFINITION (DEF): Sequence 22 from Patent WO0162932.

ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 3 a 6 c 3 g 6 t

REFERENCE:
 1 (bases 1 to 18)
 AUTHOR (AU): Deshpande, R.V.; Hitz, A.; Boyle, W.J.; Sullivan, J.K.
 TITLE (TI): Antagonistic selective binding agents of
 osteoprotegerin ***binding***
 protein

JOURNAL (SO): Patent: WO 0162932-A 22 30-AUG-2001; Amgen Inc. (US)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..18	/organism="Homo sapiens" /db-xref="taxon:9606"

SEQUENCE (SEQ):
 1 ccgactttgc acctagtt

STN INTERNATIONAL LOGOFF AT 17:24:29 ON 14 SEP 2004